TAXAN

Service Manual

For the Multivision 875 Plus LR
17" Colour Monitor

SAFETY NOTICE

THIS SERVICE MANUAL IS PREPARED TO ASSIST ENGINEERS OR TECHNICIANS OF REPAIR CENTERS WHO ARE IN CHARGE OF SERVICING THE MONITORS IN THE FIELD. THE SERVICE MANUAL, THEREFORE, IS NOT FOR USERS BUT FOR THOSE TECHNICALLY ORIENTED SERVICE ENGINEERS FROM REPAIR CENTERS WHO ARE CAPABLE OF SERVICING THE UNIT.

THIS SERVICE MANUAL EXPLAINS THE MONITOR'S OUTLINE, DETAILED FEATURES, FUNCTIONS AND BASIC CONSTRUCTION OF THE INDIVIDUAL UNIT OR CIRCUIT, ALIGNMENT PROCEDURE AND THE DETAILED TROUBLE-SHOOTING PROCEDURES.

THE CONTENTS SHOULD BE READ AND COMPLETELY UNDERSTOOD BEFORE ATTEMPTING SERVICE.

1) MAKE SURE THE POWER CORD IS DISCONNECTED BEFORE OPENING THE BACK-COVER OF THE MONITOR AND REPLACING ANY PARTS IN THE UNIT.

2) WHILE THE MONITOR IS IN OPERATION, DO NOT ATTEMPT TO CONNECT OR DISCONNECT ANY WIRE.

3) WHEN THE POWER IS ON, DO NOT ATTEMPT TO SHORT ANY PORTION OF THE CIRCUIT. THIS SHORTING MAY CAUSE DAMAGE TO THE TRANSISTORS, IC'S OR OTHER PARTS IN THE UNIT.

4) OPERATION OF THE MONITOR WITH THE CABINET OR THE BACK-COVER REMOVED INVOLVES A SHOCK HAZARD. THE REPAIR OR SERVICE WORK ON THESE MODELS SHOULD ONLY BE PERFORMED BY THOSE WHO ARE THOROUGHLY FAMILIAR WITH THE PRECAUTIONS NECESSARY WHEN WORKING ON HIGH VOLTAGE EQUIPMENT.

5) DO NOT INSTALL, REMOVE, OR HANDLE THE PICTURE TUBE IN ANY MANNER UNLESS SHATTERPROOF GOGGLES ARE WORN. PEOPLE NOT SO EQUIPPED SHOULD BE KEPT AWAY WHILE PICTURE TUBES ARE HANDLED. KEEP THE PICTURE TUBE AWAY FROM THE BODY WHILE HANDLING, & DONOT LIFT THE PICTURE TUBE BY THE NECK.

6) WHEN REPLACING A CHASSIS IN THE MONITOR, ALL THE PROTECTIVE DEVICES MUST BE PUT BACK IN PLACE, SUCH AS, BARRIERS, NON-METALLIC KNOBS, ADJUSTMENT AND COMPARTMENT SHIELDS, AND ISOLATION RESISTOR-CAPACITOR, ETC.

7) WHEN SERVICE IS REQUIRED, OBSERVE THE ORIGINAL LEAD DRESS. EXTRA PRECAUTION SHOULD BE TAKEN TO ENSURE CORRECT LEAD DRESS IN THE HIGH VOLTAGE CIRCUITRY AREA.

8) ALWAYS USE THE MANUFACTURER'S REPLACEMENT PARTS. ESPECIALLY CRITICAL PARTS AS INDICATED ON THE CIRCUIT DIAGRAM SHOULD NOT BE REPLACED BY OTHER MANUFACTURER'S. PARTS FURTHERMORE, WHERE A SHORT CIRCUIT HAS OCCURRED, ALSO REPLACE THOSE PARTS THAT INDICATE EVIDENCE OF OVERHEATING.

9) BEFORE RETURNING A SERVICED THE MONITOR TO THE CUSTOMER, THE SERVICE TECHNICIAN MUST THROUGHTLY TEST THE UNIT TO BE SURE THAT IT IS COMPLETELY SAFE TO OPERATE WITHOUT DANGER OF ELECTRICAL SHOCK, AND MUST ENSURE THAT NO PROTECTIVE DEVICE BUILT INTO THE MONITOR BY THE MANUFACTURER HAS BECOME DEFECTIVE, OR INADVERTENTLY DEFEATED DURING SERVICING.

PRECAUTIONS FOR SERVICING THE HIGH-VOLTAGE AREA :

THIS MONITOR IS PROVIDED WITH A HIGH VOLTAGE HOLD DOWN CIRCUIT FOR CLEARLY INDICATING THAT VOLTAGE HAS INCREASED IN EXCCESS OF A PREDETERMINED VALUE.
COMPLY WITH ALL NOTES DESCRIBED IN THIS SERVICE MANUAL REGARDING THIS HOLD DOWN CIRCUIT WHEN SERVICING, SO THAT IT MAY FUNCTION CORRECTLY.

1) EXERCISE CARE WHEN SERVICING THE CHASSIS WITH THE POWER LINE CONNECTED. B+ VOLTAGE AND HIGH VOLTAGE TERMINALS ARE EXPOSED WHICH, IF CARELESSLY CONTACTED, CAN CAUSE SERIOUS SHOCK OR RESULT IN DAMAGE TO THE CHASSIS. MAINTAIN INTERCONNECTING GROUND LEAD CONNECTIONS BETWEEN CHASSIS, ESCHUTHEON AND PICTURE TUBE DAG CLUSTER WHEN SERVICING THE CHASSIS.

2) THE B+ ADJ. CONTROLS IN THIS MONITOR ARE SEALED IN ORDER TO PROTECT THE USER FROM X-RAY RADIATION. THE B+ ADJ. CONTROLS DO NOT NORMALLY HAVE TO BE ADJUSTED. BUT IF THESE ARE REPLACED DUE TO DAMAGE, CHECK THE B+ VOLTAGE TO ENSURE THAT IT IS WITHIN SPECIFICATIONS AFTER ADJUSTMENT. THEN SEAL THESE CONTROLS ACCORDING TO THE MANUFACTURER'S INSTRUCTION.

3) FAILURES IN THE HIGH VOLTAGE AREA CAN INCREASE X-RAY RADIATION. THE MONITORS SHOULD NOT BE OPERATED WITH HIGH VOLTAGE LEVELS EXCEEDING THE SPECIFIED RATING FOR THE CHASSIS TYPE. THE MAXIMUM HIGH VOLTAGE SPECIFIED FOR OPERATING THE MONITOR CHASSIS IS 25KV +- 1.5KV AT ZERO BEAM CURRENT AT THE SPECIFIED LING VOLTAGE. HIGHER VOLTAGE THAN SPECIFIED ALSO INCREASES THE POSSIBILITY OF FAILURE IN THE HIGH VOLTAGE AREA.

4) IT IS IMPORTANT TO MAINTAIN THE SPECIFIED VALUES OF ALL PARTS IN THE HORIZONTAL SCANNING AND HIGH VOLTAGE CIRCUITS OR ANYWHERE ELSE IN THE MONITOR THAT COULD CAUSE A RISE IN HIGH VOLTAGE OR OPERATING SUPPLY VOLTAGE. NO CHANGES SHOULD BE MADE TO THE ORIGINAL DESIGN OF THE MONITOR.

5) THE USE OF UNAUTHORIZED SUBSTITUTE PARTS MAY CREATE A SHOCK, FIRE, X-RAY RADIATION OR OTHER HAZARD. ANY PARTS REPLACEMENT IN THIS MONITOR MUST BE DONE IN ACCORDANCE WITH THE BOM.

6) TO CHECK AND SEE THE PRESENCE OF HIGH VOLTAGE, USE AN ACCURATE HIGH IMPEDANCE HIGH VOLTAGE METER CONNECTED BETWEEN THE SECOND ANODE LEAD AND THE CRT DAG GROUNDING DEVICE. WHEN SERVICING THE HIGH VOLTAGE SYSTEM, REMOVE STATIC CHARGE FROM IT BY CONNECTING A 10K-OHM RESISTOR IN SERIES WITH AN INSULATED WIRE (SUCH AS A TEST PROBE) BETWEEN THE PICTURE TUBE DAG AND THE SECOND ANODE LEAD. (THE AC LINE CORD SHOULD BE DISCONNECTED FROM THE AC SUPPLY.)

SERVICE WARNING

AT MINIMUM BRIGHTNESS AND CONTRAST THE OPERATING HIGH VOLTAGE IN THIS DISPLAY IS LOWER THAN 30KV. IF ANY COMPONENT HAVING INFLUENCE ON THE HIGH VOLTAGE IS REPLACED, CONFIRM THAT THE HIGH VOLTAGE AT MINIMUM BRIGHTNESS AND CONTRAST IS LOWER THAN 30KV.

X-RADIATION WARNING

TUBE : THE PRIMARY SOURCE OF X-RADIATION IN THIS MONITOR IS THE PICTURE TUBE. THE TUBE UTILIZED IN THIS CHASSIS IS SPECIALLY CONSTRUCTED TO LIMIT X-RADIATION EMISSIONS. FOR CONTINUED X-RADIATION PROTECTION, THE REPLACEMENT TUBE MUST BE THE SAME TYPE AS THE ORIGINAL, MANUFACTURER APPROVED TYPE.
WHEN TROUBLESHOOTING AND MAKING TEST MEASUREMENTS IN A MONITOR WITH A PROBLEM OF EXCESSIVE HIGH VOLTAGE, AVOID BEING UNNECESSARILY CLOSE TO THE PICTURE TUBE AND THE HIGH VOLTAGE PARTS. DO NOT OPERATE THE CHASSIS LONGER THAN IS NECESSARY TO LOCATE THE CAUSE OF EXCESSIVE VOLTAGE.

THE SURFACE OF THE PICTURE TUBE MAY GENERATE X-RADIATION. TAKE PRECAUTIONS DURING SERVICING, AND IF POSSIBLE THE USE OF A LEAD APRON OR METAL FOR SHIELDING IS RECOMMENDED. TO AVOID POSSIBLE EXPOSURE TO X-RADIATION AND ELECTRICAL SHOCK HAZARD, THE HIGH VOLTAGE COMPARTMENT AND THE PICTURE TUBE SHIELD MUST BE KEPT IN PLACE WHENEVER THE CHASSIS IS IN OPERATION. WHEN REPLACING PICTURE TUBE USE ONLY THE DESIGNATED REPLACEMENT PART SINCE IT IS A CRITICAL PART WITH REGARD TO X-RADIATION AS NOTED ABOVE.

CAUTION

THE LINE CORD AND PLUG PROVIDED WITH THIS SET IS DESIGNED FOR SAFETY. IT IS TO BE USED WITH A PROPERLY GROUNDED POWER RECEPTACLE TO AVOID POSSIBLE ELECTRICAL SHOCK. DO NOT REMOVE THE REAR COVER OF THE SET AS THIS CAN EXPOSE YOU TO VERY HIGH VOLTAGES AND OTHER HAZARDS.

FCC RADIO FREQUENCY INTERFERENCE STATEMENT

WARNING

THIS EQUIPMENT GENERATES, USES AND CAN RADIATE RADIO FREQUENCY ENERGY AND IF NOT INSTALLED AND USED IN ACCORDANCE WITH THE INSTRUCTION MANUAL, MAY CAUSE INTERFERENCE TO RADIO COMMUNICATIONS. IT HAS BEEN TESTED AS A CLASS A COMPUTING DEVICE AND FOUND TO COMPLY WITH THE LIMITS SPECIFIED IN SUBPART J OF PART 15 OF FCC RULES, WHICH ARE BESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST SUCH INTERFERENCE WHEN OPERATED IN A COMMERCIAL ENVIRONMENT.

* SIGNAL CABLE
  SHIELDED COAXIAL CABLE

OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE INTERFERENCE IN WHICH CASE THE USER WILL BE REQUIRED TO TAKE WHATEVER MEASURES MAY BE REQUIRED TO CORRECT THE INTERFERENCE AT HIS OWN EXPENSE.

ALIGNMENT

THIS ALIGNMENT PROCEDURE IS USED FOR ADJUST / TEST PICTURE PERFORMANCE. IN ORDER TO OBTAIN OPTIMUM ADJUST THE FOLLOWING ADJUST SEQUENCE MUST BE STEP BY STEP.

1. B+ VOLTAGE ADJ. : (MODE 3 =31.467KHZ ,MODE 7 =37.7KHZ)
   INPUT MODE 7, CROSS HATCH PATTERN, ADJUST VR1 (WHICH LOCATE AT S/P/S PCB) MAKE B+ = 170 V, CHANGE TO MODE 3, ADJUST VR2 MAKE B+ EQUAL TO 72 V.

2. HI-VOLTAGE ADJUSTMENT & X-RAY PROTECTION :
   a. INPUT MODE 3, FULL WHITE PATTERN, SET EXT. CONTRAST & EXT. BRIGHTNESS TO MIN, ADJUST VRP1 TO SET HI-VOLTAGE = 26.0±0.3 KV
   b. PARALLEL 24 KOHMS RESISTOR WITH R296, THEN HIGH VOLTAGE MUST SHUT DOWN.
   c. REMOVE VERTICAL OR HORIZONTAL CONNECTOR, THEN HIGH VOLTAGE SHOULD SHUT DOWN.

3. RASTER ADJUST :
   INPUT MODE 7, ADJUST VR201 GET RASTER AT THE CENTER OF BEZEL.

4. DEFLECTION IMAGE PERFORMANCE ADJUST :
   INPUT "SIZE CHECK PATTERN", TIMING FROM 1 TO 6 .
   BEFORE ADJUST " P808 " MUST BE SHORTED .
   a. HORIZONTAL PHASE ADJUST :
      TURN FUNCTION SWITCH TO " ⟷ " , PUSH UP-DOWN BUTTON, MAKE THE PICTURE AT CENTER OF BEZEL, $|T-B| \leq 4mm$, $|L-R| \leq 4mm$.

   b. HORIZONTAL WIDTH ADJUST :
      TURN FUNCTION SWITCH TO " ⟷ " , PUSH UP-DOWN BUTTON, MAKE THE HORIZONTAL WIDTH EQUAL TO 300 ± 3mm .

   c. VERTICAL CENTER ADJUST :
      TURN FUNCTION SWITCH TO " ↕ " , PUSH UP-DOWN BUTTON, MAKE THE VERTICAL PICTURE AT THE CENTER OF CRT .

   d. VERTICAL HEIGHT ADJUST :
      TURN FUNCTION SWITCH TO " ↕ " , PUSH UP-DOWN BUTTON, MAKE THE VERTICAL HIGHT EQUAL TO 225 ± 3mm .

   * REPEAT CHECK ITEM c & d

   e. PINCUSHION ADJUST :
      TURN FUNCTION SWITCH TO " ⌓ " , PUSH UP-DOWN BUTTON, MAKE THE PINCUSHION DISTORTION < 3 mm .

   f. TRAP ADJUST :
      TURN FUNCTION SWITCH TO " ⏢ " , PUSH UP-DOWN BUTTON, MAKE THE TRAP WITHIN SPE (< 0.6 DEGREE) .

   * REPEAT ITEM e,f , AND CHECK ITEM b .

   g. A/C TIMING SAVE :
      WHEN FINISH ITEM a---->f,TURN FUNCTION SWITCH TO " □ "(SAVE), THEN TURN FUNCTION SWITCH TO " " AND PUSH RECALL BUTTON.
      TIMING SAVE IS FINISHED .
      INPUT THE OTHER TIMING , REPEAT ITEM a---->g ADJUSTMENT.

   h. A/C TIMING SAVE PROTECTION :
      WHEN FINISH A/C TIMING SAVE, THEN OPEN "P808" .

5. RECALL BUTTON FUNCTION CHECK :
   INPUT MODE 7, PUSH RECALL BUTTON, CHECK DEFLECTION IMAGE PERFORMANCE.

6. LINEARITY CHECK :
   INPUT MODE 1 TO MODE 7 , CROSS HATCH PATTERN (H x V =12 x 10)
   CHECK HORIZONTAL & VERTICAL LINEARITY :

$$\left| \frac{MAX-MIN}{MAX} \right| X\ 100\% \Longrightarrow H=12\%\ \ V=12\%$$

7. HORIZONTAL TILT CHECK :
   INPUT MODE 7, ENSURE HORIZONTAL TILT AS FIG(1).

8. G1 VOLTAGE SETTING :
INPUT MODE 7, CROSS HATCH PATTERN, TURN EXT. BRIGHTNESS TO MAX, ADJUST VR202 (INT. BRI.) GET G1 VOLTAGE EQUAL TO -45V (EXCLUDE BLANKING LEVEL).

9. COMPOSITE VIDEO CHECK :
INPUT COMPOSITE MODE, REMOVE H. V. SYNC. THEN CHECK THE PICTURE WHETHER MEET THE SPEC. OR NOT .

10. DYNAMIC FOCUS ADJ. :
   a. INPUT MODE 7, FULL WHITE PATTERN, SET BRIGHTNESS OF CENTER IS 25 FL. THEN ADJUST VR602 GET VERTICAL CYCLE TO 210 Vp-p.
   b. INPUT MODE 7, CROSS HATCH PATTERN,
      ADJ. G4 GET THE VERTICAL LIME IS CLEAR OF THE PICTURE.
      ADJ. DF GET THE HORIZONTAL LINE IS CLEAR OF THE PICTURE.
   c. INPUT MODE 7, FULL "Cx" PATTERN, CHECK EVERY WORD IS CLEAR OF THE PICTURE.

11. WHITE BALANCE ADJ. (CRT TRANSMISSION 53.5%) :
   a. ADJ. VR204 COUNTERCLOCKWISE TO THE BUTTON .

   b. INPUT MODE 7, COLOR SCALE PATTERN, TURN EXT. BRIGHTNESS VR205 TO MIN, EXT. CONTRAST VR104 TO MAX .

   c. ADJ. VR108,109,110 , MAKE R.G.B. CATHODE DC VOLTAGE EQUAL TO 55V.

   d. ADJ. VR105,106,107 , MAKE R.G. CATHODE AMPLITUDE TO BE 40 Vpp , "B." TO BE 35 Vpp , AS FIG (2)

   e. TURN EXT.BRIGHTNESS VR205 TO MAX , ADJ. G2 GET RASTER VISIBLE . (DISABLE VIDEO THEN RASTER BRIGTHNESS TO BE 1 FL.)

   f. DISPLAY 2" SQUARE PATTERN, TURN EXT. CONTRAST VR104 TO MIN, ADJ. EXT. BRIGHTNESS VR205 SUCH THAT THE LUMINANCE AT CENTER OF SCREEN SHALL BE 2.0 FL.
   USE THE COLOR ANALYZER TO MEASURE AT THE CENTER OF SCREEN, ADJ. VR108 TO GET X =283 ± 25, ADJ VR109 TO GET Y =298 ± 25.

   g. TURN VR104 TO MAX. ,ADJ. VR 105 TO GET X =283 ± 25, ADJ. VR106 TO GET Y = 298 ± 25.

   h. REPEAT ITEM f.g , MAKE SURE X =283 ± 25 , Y=298 ± 25 .

   i. DISABLE VIDEO INPUT, TURN EXT. BRIGTHNESS & CONTRAST TO MAX. , ADJ. G2 TO GET RASTER EQUAL TO 1FL .

   j. DISPLAY 2" SQUARE PATTERN, TURN EXT. CONTRAST TO MAX ,EXT. BRIG. TO RASTER DISAPPEAR, ADJ. VR101 TO GET THE LUMINANCE OF CENTER IS > 40FL.

   k. INPUT FULL WHITE PATTERN, TURN VR104 TO MAX. , ADJ. VR205 TO RASTER DISAPPEAR, ADJ. VR204 TO GET THE LUMINANCE OF CENTER >24FL.TURN EXT. CONTRAST & EXT. BRIGHTNESS TO MAX. CHECK THE BRIGHTNESS MUST BE < 40FL.

   l. INPUT FULL WHITE PATTERN, TURN VR205 TO RASTER DISAPPEAR , ADJ. EXT. CONTRAST TO MIN. CHECK THE BRIGHTNESS MUST BE < 5FL.
   ADJ. EXT. CONTRAST TO MIN. CHECK THE BRIGHTNESS MUST BE < 24FL.

12. LUMINANCE UNIFORM CHECK :
TURN EXT. BRIG. & EXT. CONTRAST TO MAX. , INPUT MODE 5 FIVE 2" SQUARES PATTERN , ADJ. EXT. CONTRAST VR104 TO MAKE THE LUMINANCE OF CENTER WILL BE 25 FL.
CHECK THE LUMINANCE OF CRT AT ANY POINT SHALL NOT LESS THAN 65% MEASURE AT CENTER OF CRT, AS FIG (3).

13. MISCONVERGENCE CHECK :
   a. INPUT MODE 7, FULL WHITE PATTERN , TURN EXT. BRIGHTNESS VR205 TO RASTER DISAPPEAR .
   TAKE THE PHOTO METER (UDT351)TO THE CENTER OF SCREEN, ADJ. EXT. CONTRAST VR104 TO SET THE CENTER BRIGHTNESS AT 25 FL .

   b. INPUT CROSS HATCH PATTERN , CHANGE TO R/G B/G R/B COLOR RESPECTIVELY TO CHECK MISCONVERGENCE.
   CENTER AREA (D=225 mm) : 0.3 mm ; OTHER AREA : 0.4 mm .
   AS FIG(4).

14. PURITY CHECK :
INPUT MODE 7, FULL WHITE PATTERN, TURN EXT. BRIGHTNESS VR205 TO RASTER DISAPPEAR.
TAKE THE PHOTO METER (UDT351)TO THE CENTER OF SCREEN, ADJ. EXT. BRIGHTNESS VR104 TO GET THE CENTER BRIGHTNESS AT 25 FL .
CHANGE TO RED, GREEN, BLUE COLOR RESPECTIVELY TO CHECK WHETHER THE PURITY GOOD OR NOT.

15. DISPLAY SIZE STABILITY CHECK :
INPUT MODE 7 FULL WHITE PATTERN, TURN EXT. BRIGHTNESS FROM 5FL TO 25FL, THE VERTICAL AND HORIZONTAL DIMENSIONS OF THE IMAGE SHALL NOT CHANGE MORE THAN ± 3mm .

16. IMAGE ANOMALIES :
INPUT MODE 7 WITH ANY DISPLAYED PATTERN, THE MONITOR SHALL NOT PRESENT UNDESIRABLE ARTIFACTS SUCH AS FLATFIELD INTENSITY MODULA-TIONS , JITTER , SWIN , VIDEO RINGING , ETC .

TIMING

PARAMETER	01	02	03	04	05
HORZONTAL					
Fh KHz	31.469	31.469	31.469	35.52	31.76
H TATOL us	31.778	31.778	31.78	28.15	31.49
H SYNC us	3.813	3.813	3.813	3.92	3.7
H BP us	1.91	1.91	1.91	0.891	1.85
H ACTIVE us	25.42	25.42	25.42	22.81	24.7
H FP us	0.64	0.64	0.64	0.18	1.23
VERTICAL					
Fv KHz	70.08	70.08	59.94	86.96	71.53
V TATOL ms	14.268	14.268	16.683	23.00	13.98
V SYNC ms	0.064	0.064	0.064	0.064	0.126
V BP ms	1.907	1.112	1.048	0.57	0.598
V ACTIVE ms	11.12	12.71	15.25	21.620	12.75
V FP ms	1.176	0.381	0.318	0.770	0.504
H/V POLARITY	+/-	-/+	-/-	+/+	-/+
fPIXEL MHz	25.175	25.175	25.175	44.90	38.88
RESOLUTION	640/350	640/400	640/480	1024/768	960/405

PARAMETER	06	07	08	09	10
HORZONTAL					
Fh KHz	31.76	37.689			
H TATOL us	31.49	26.40			
H SYNC us	3.7	3.238			
H BP us	1.85	2.242			
H ACTIVE us	24.7	19.92			
H FP us	1.23	0.996			
VERTICAL					
Fv KHz	72.18	59.729			
V TATOL ms	13.85	16.66			
V SYNC ms	0.126	0.105			
V BP ms	0.598	0.607			
V ACTIVE ms	12.62	15.95			
V FP ms	0.504	0.0			
H/V POLARITY	-/+	+/+			
fPIXEL MHz	38.88	47.94			
RESOLUTION	960/401	800/600			

DISASSEMBLY PROCEDURE

1.
a. LOOSEN 4 SCREWS BY USING AIR DRIVER WITH (+) BIT.
   (SEE FIG.1 MARKED "A".)

b. REMOVE REAR COVER.
   (SEE FIG.1 MARKED "B".)

2.
a. LOOSEN 9 SCREWS BY USING AIR DRIVER WITH (+) BIT.
   (SEE FIG.2 MARKED "A".)

b. RELEASE 2 CORD CRAMPERS.
   (SEE FIG.2 MARKED "B".)

3.
a. LOOSEN 7 SCREWS BY USING AIR DRIVER WITH (+) BIT.
   (SEE FIG.3 MARKED "A".)

4.
a. LOOSEN 10 SCREWS BY USING AIR DRIVER WITH (+) BIT.
   (SEE FIG.4 MARKED "A".)

b. REMOVE TOP PANEL.
   (SEE FIG.4 MARKED "B".)

c. REMOVE L-PANEL.
   (SEE FIG.4 MARKED "C".)

d. REMOVE REAR PANEL.
   (SEE FIG.4 MARKED "D".)

5.
a. RELEASE 2 CORD CRAMPERS.
   (SEE FIG.5 MARKED "A".)

b. CUT 1 CABLE TIE.
   (SEE FIG.5 MARKED "B".)

c. DISENGAGE 6 CONN. PINS.
   (SEE FIG.5 MARKED "C".)

b. REMOVE SPS PCB ASS'Y.
   (SEE FIG.5 MARKED "D".)

e. MOVE R-PANEL.
   (SEE FIG.5 MARKED "E".)

6.
a. CUT 3 CABLE TIES.
   (SEE FIG.6 MARKED "A".)

b. RELEASE 2 CORD CRAMPERS.
   (SEE FIG.6 MARKED "B".)

c. DISENGAGE 7 CONN. PINS.
   (SEE FIG.6 MARKED "C".)

d. REMOVE LOGIC PCB ASS'Y.
   (SEE FIG.6 MARKED "D".)

e. CAUTION:
   IT HAS TO BE DISCHARGED BEFORE DISENGAGING HI-VIL CAP.
   (SEE FIG.6 MARKED "E".)

7.
a. DISENGAGE 3 CONN. PINS.
   (SEE FIG.7 MARKED "A".)

b. DISENGAGE NECK PCB ASS'Y BY CUTTING OFF THE SILICA GLUE
   CONNECTING CRT NECK & CRT SOCKET FIRST WITH A KNIFE.
   (SEE FIG.7 MARKED "B".)

c. REMOVE NECK PCB ASS'Y.
   (SEE FIG.7 MARKED "C".)

8.
a.DISENGAGE 6 CONN. PINS.
(SEE FIG.8 MARKED "A".)

b.LOOSEN 1 SCREW BY USING AIR DRIVER WITH (+) BIT.
(SEE FIG.8 MARKED "B".)

c.RELEASE 1 CORD CRAMPER.
(SEE FIG.8 MARKED "C".)

d.REMOVE DEF PCB ASS'Y & SUB NECK PCB ASS'Y.
(SEE FIG.8 MARKED "D".)

9.
a.LOOSEN 2 SCREWS BY USING AIR DRIVER WITH (+) BIT.
(SEE FIG.9 MARKED "A".)

10.
a.RELEASE 1 CORD CRAMPER.
(SEE FIG.10 MARKED "A".)

b.DISENGAGE 1 CONN. PIN.
(SEE FIG.10 MARKED "B".)

c.LOOSEN 1 SCREW BY USING AIR DRIVER WITH (+) BIT.
(SEE FIG.10 MARKED "C".)

11.
SET & SYSTEM ASS'Y.
(SEE FIG.11.)

12.
VIDEO PCB ASS'Y.
(SEE FIG.12.)

13.
LOGIC PCB ASS'Y.
(SEE FIG.13.)

14.
SPS PCB ASS'Y.
(SEE FIG.14.)

15.
a.LOOSEN 6 SCREWS BY USING AIR DRIVER WITH (+) BIT.
(SEE FIG.15 MARKED "A".)

b.RELEASE 2 CORD CRAMPERS.
(SEE FIG.15 MARKED "B".)

c.REMOVE DEF COVER.
(SEE FIG.15 MARKED "C".)

16.
DEF PCB ASS'Y & NECK PCB ASS'Y.
(SEE FIG.16.)

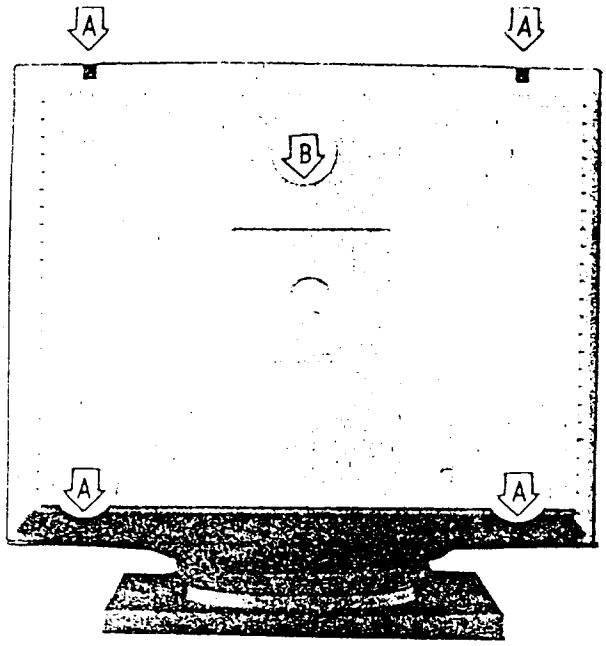

FIG.1

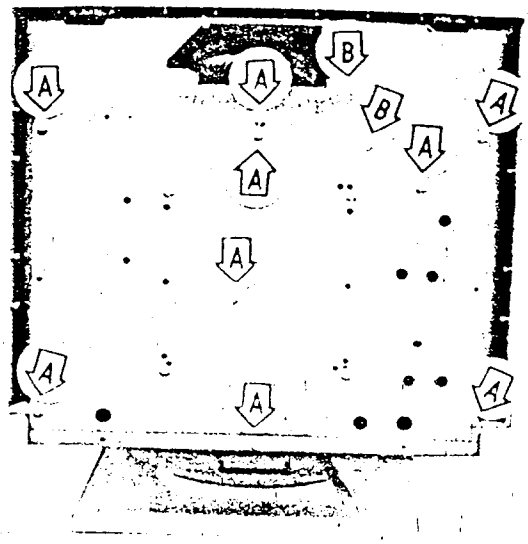

FIG.2

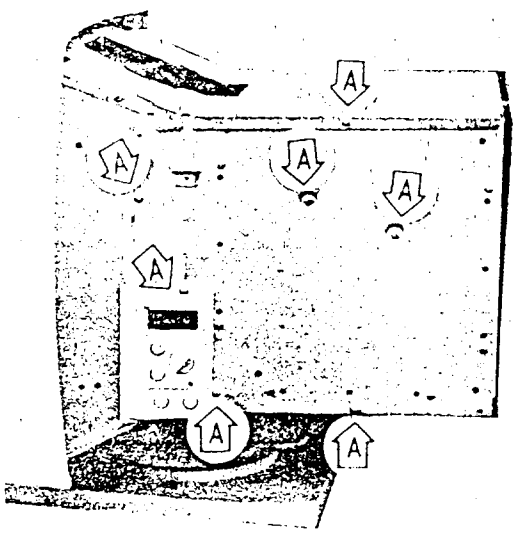

FIG.3

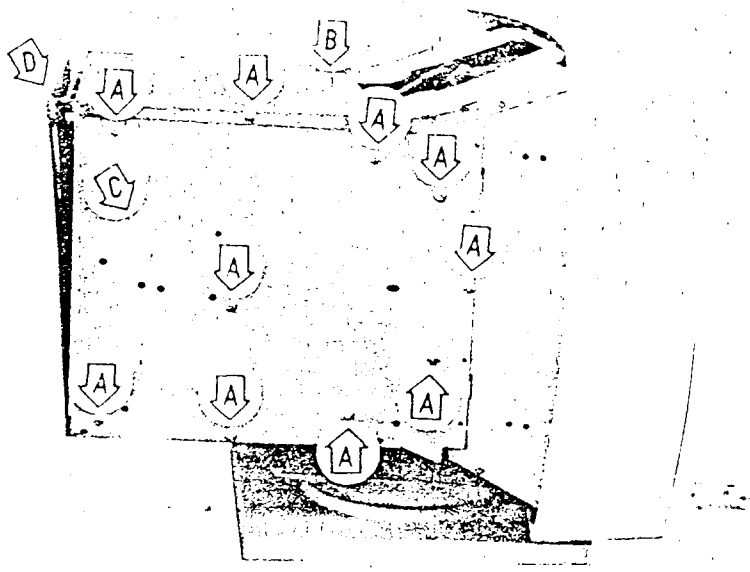

FIG.4

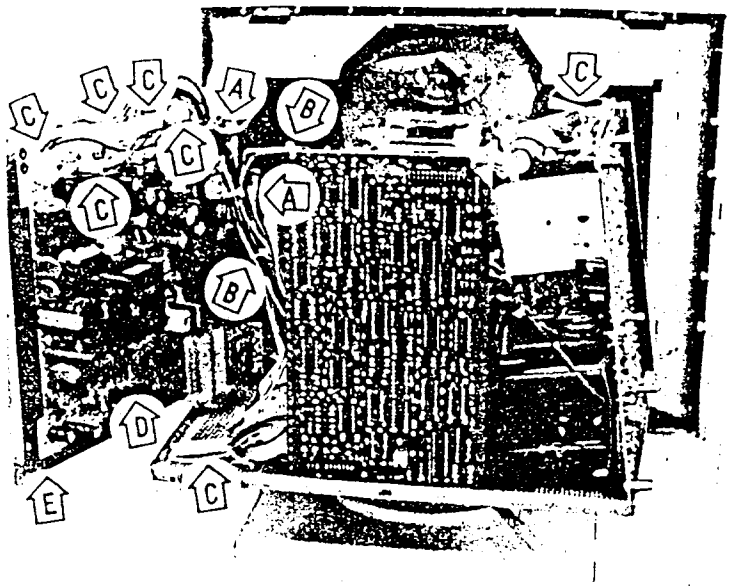

FIG.5

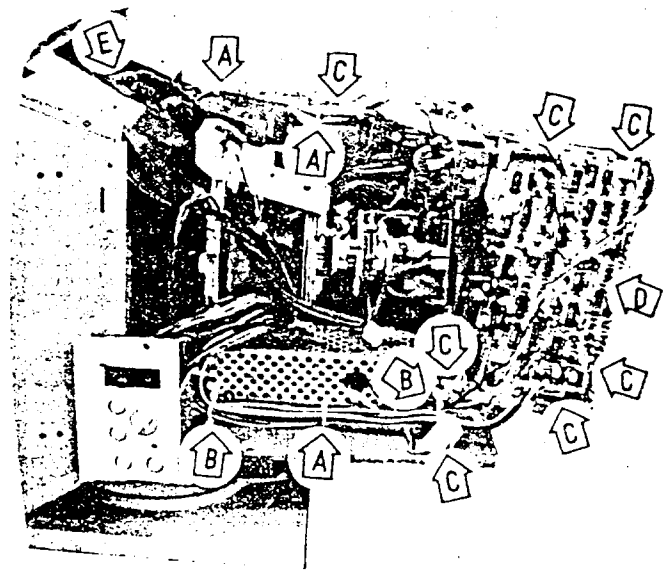

FIG.6

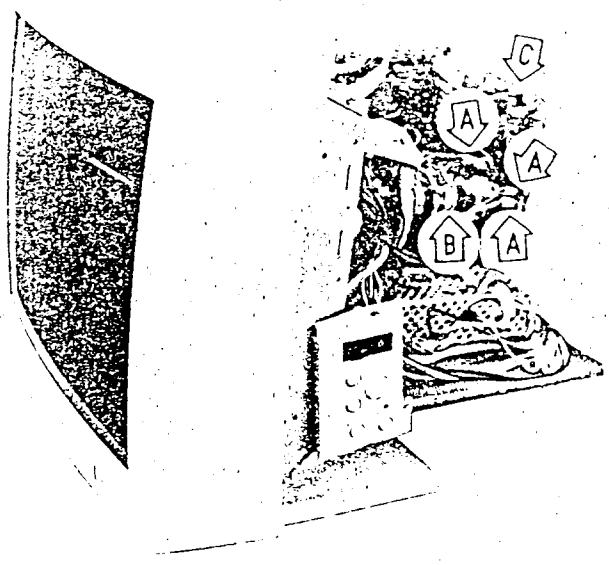

FIG.7

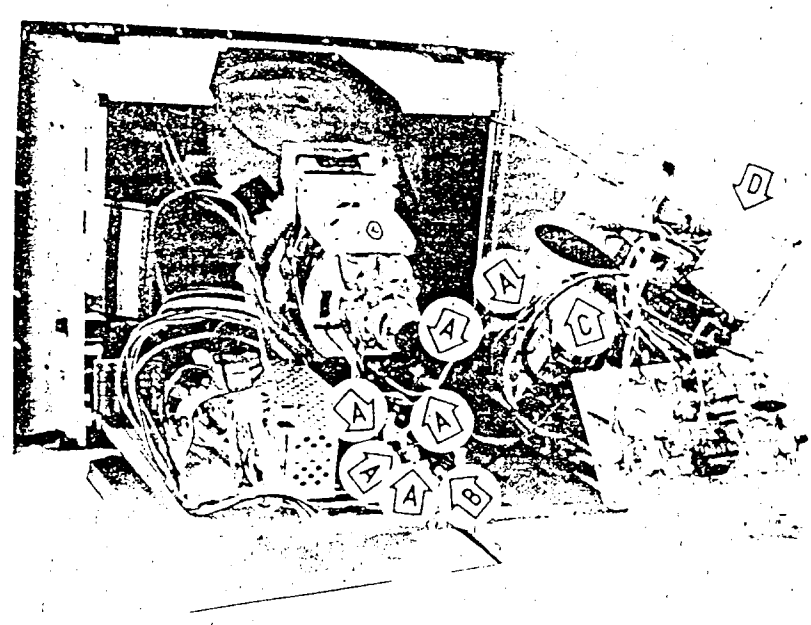

FIG.8

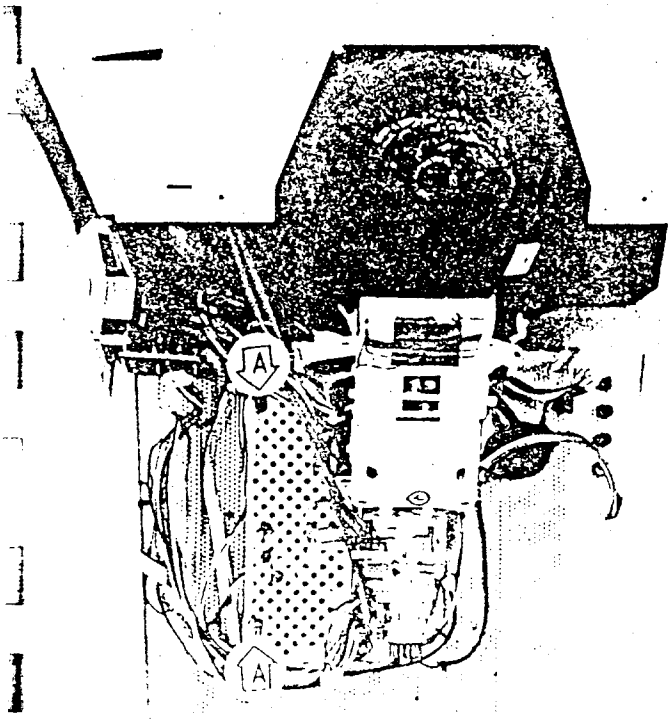

FIG.9

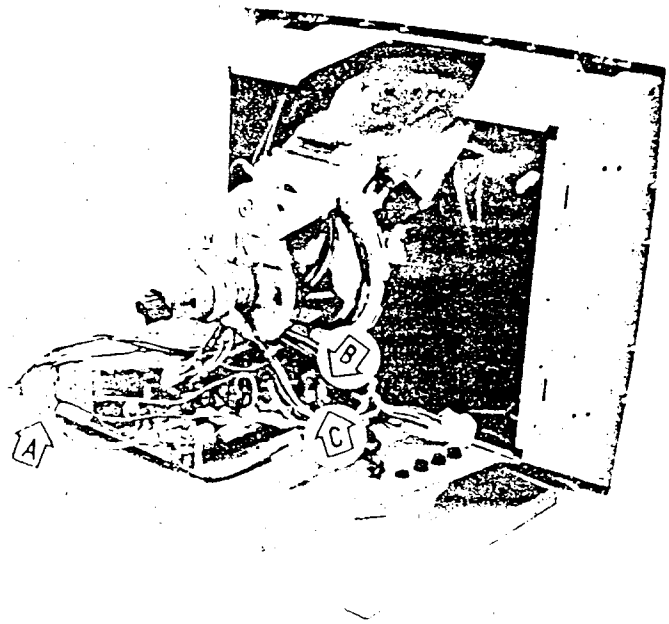

FIG.10

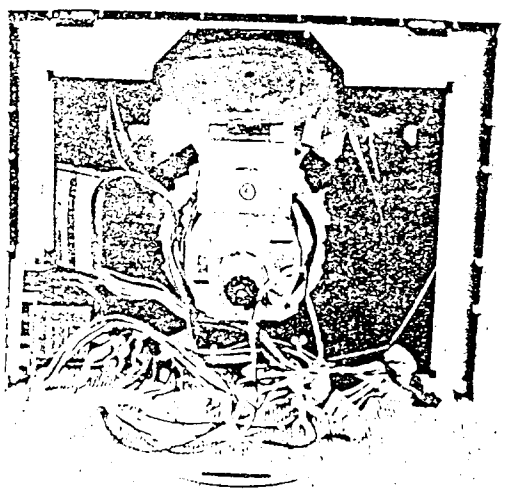

FIG.11

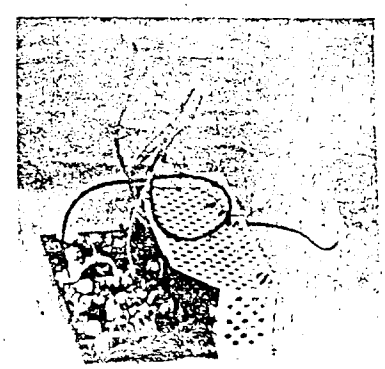

FIG.12

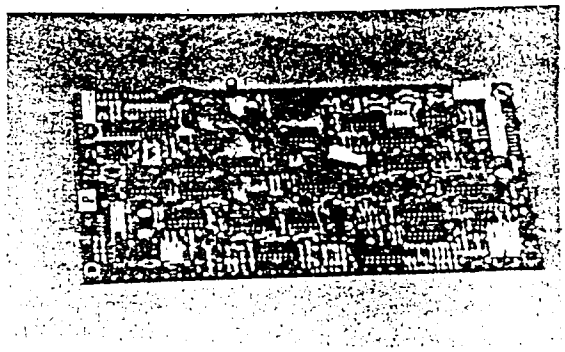

FIG.13

FIG.14

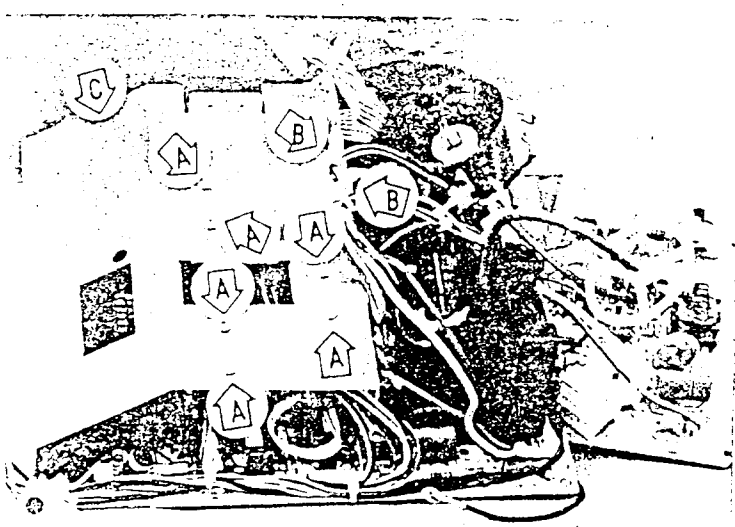

FIG.15

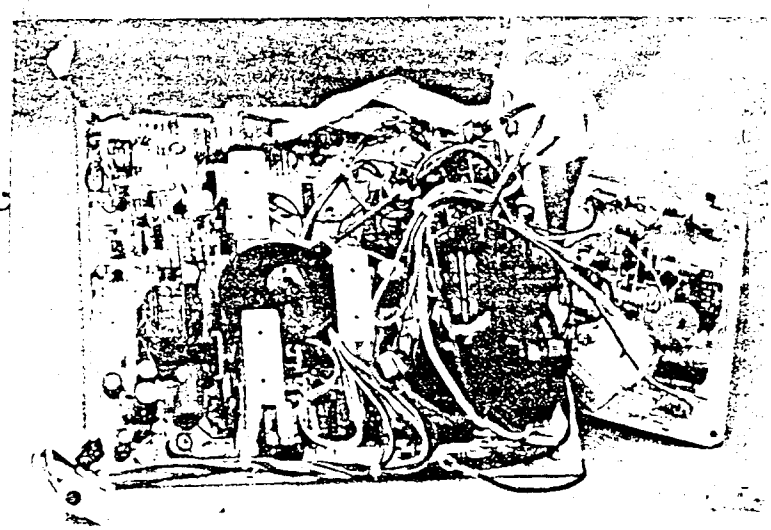

FIG.16

BILL OF MATERIAL (PARTS FOR MECH) 08/05/'92

LOCATION	PART NO.	DESCRIPTION	REMARKS
1	1002194232-147	#COVER REAR	
2	1005194232-147	#TILT BALL	
3	1006094251-221	RETAINER	
4	1020194232-147	#BASE-2	
5	1009094238-147	LATCH	
6	1011194232-221	#KNOB PUSH	
7	1012194232-221	#KNOB SELECT	
8	1013194232-221	#KNOB VR A	
9	1015194232-221	#KNOB VR B	
10	1017194232-147	#SW BRACKET	
11	1010094310-195	FOOT	
12	1023094000-231	BUSHING SNAP	
13	2001194235-000	CRT FRAME	
14	2001494230-000	STAND	
15	2002194230-000	CHASSIS (R)	
16	2004394251-000	CHASSIS TOP	
17	2024194230-000	#CHASSIS BOTTOM	
18	2010094330-000	#CHASSIS REAR	
19	2008094251-000	BKT BEZEL	
20	2012094330-000	#CHASSIS (L)	
21	4580090100-000	HOLE PLUGS TYPE HP-09	
22	7010014517-000	@CRT M41KMP23XX01	
23	8081111530-000	SCREW BIND/HD MACH 1/4"-20X30	
24	9003094330-000	DECO PLATE	
25	3011100030-000	NUT ISO HEX M3 ZINC	
26	3211300000-000	WASHER SPRING M3 5.2¢X3.2¢X0.8T	
27	8002113012-000	SCREW FLATE HD(+) M3X12	
28	CM433L054H-V	LOGIC PCB ASS'Y	
29	8504113010-000	SCREW BIND(+) M3X10 MACH W/DISK WASHER ZINC	
30	8350113016-000	SCREW BIND(+) M3X16 W/S W.F.W.	
31	2016094230-000	STUD M3X12	
32	8418113010-000	SCREW BIND(+) TAPPING M3X10 ZINC "P" TYPE	
33	2018094140-000	TOOTHED LOCK WASHER	
34	3051100050-000	NUT ZINC CHROMATE M5	
35	3111502016-000	FLAT WASHER M5 T=1.6	
36	7020174231-000	DEGAUSSING COIL W/CORE	
37	8223113008-000	SCREW BID(+) ZN3C M3X8XP0.5 W/GEAR WASHER	
38	2016094230-000	STUD M3X12	
39	1009094140-221	PCB SLOT	
40	4410304038-000	POWER SWITCH 1542.1423	
41	8121110406-000	SCREW CAP BIND(+) TRIANGLE "C"	
42	1016194232-147	#BEZEL ASS'Y	
43	2016094251-000	STUD M3X9	
44	8418114014-000	SCREW BID(+) M4 TAPPING TRI"P"	
45	8127113006-000	SCREW PAN(+)/HD CAP TAPPING M3X6 ZINC "B"	
46	4141076300-000	P.C.B. CONTROL BOARD-I	
47	4141076400-000	P.C.B. CONTROL BOARD-II	
48	4141076601-000	P.C.B. VR	
50	2034094330-000	VIDEO COVER	
51	2008094235-000	SUB NECK SHIELD	
52	CM433L024H-V	NECK PCB ASS'Y	
53	CM43320444-V	SUB NECK ASS'Y	
54	CM433L034H-V	SPS PCB ASS'Y	
55	CM43330144-V	DEF PCB ASS'Y	
56	7061620129-000	LINE FILTER IA5-H33	
57	C710433L10-000	I/O CABLE ASS'Y 5FT	

BILL OF MATERIAL (PARTS FOR OTHERS) 08/05/'92

LOCATION	PART NO.	DESCRIPTION	REMARKS
	1014194232-221	#CAP	
FOR YOKE CANCECING COIL	1021094230-221	HOLDER	
FOR I/O CABLE	2002091229-000	CLIP CABLE	
	2036094330-000	PLATE AEF	
NECK BOARD&BOTTOM GROUND X	3011100040-000	NUT M4 ZN3C	
FOR VR & CONTROL PCB	3111701305-000	#FLAT WASHER ¢7.2X13X0.5TMM	
R702	4050410355-000	RES-CF 1/4W +-5% 10KR -AT-	
R701,703,704	4050422055-000	RES-CF 1/4W +-5% 22R -AT-	
FOR LINE FILTER	4070247455-000	RES-MF 1/2W +-5% 470KR -AT-	
D701-710	4120141480-000	DIODE 1N4148 (SI) -AT-	
	4120618240-000	LED LT1824-81	
	4141078200-000	P.C.B. 8MMX9MM FOR LED1	
IC701	4159140170-000	IC MC14017	
L701	4321229006-000	COIL PEAKING 2.2UH -AT-	
VR703	4410407010-000	ROTARY SWITCH 30-707-901	
VR701,702	4410604036-000	KEY SWITCH 62T-11	
	4410604037-000	KEY SWITCH SKHH	
FOR INPUT	4490100208-000	CONN. BNC 180 DEGREE BNB-001	
	4491200203-000	WAFER 12P TYPE HB02121	
VR102	502103B305-000	VR +-20% 10K RK097111T010-B	
VR205	502104B305-000	VR 100K RK097111T011	
C701	515A109T16-000	CAP-EC +-20% 1UF/16V -RT-	
FOR RES	5290003000-000	TUBE-SHRINK ID=3¢	
FOR AC INPUT SOCKET	5290005000-000	TUBE-SHRINK ID=5¢	
	5530200101-000	CORD CRAMP TH-C	
FOR SPS WIRE ASS'Y	5530200102-000	CORD CRAMPER TH-A	
FOR CHAS TO TOP	5530200102-000	CORD CRAMPER TH-A	
FOR CHAS REAR	5530215001-000	CORD CRAMPER 15¢	
FOR WIRE ASS'Y	5541025095-000	CABLE TIE 2.5X90	
	5541025160-000	CABLE TIE-BINDING 2.5X160	
FOR CORE & STAND X3	5541025160-000	CABLE TIE-BINDING 2.5X160	
FOR VIDEO INPUT	5560020002-000	CORE FAIRRI (R-26X29X12.5)	
C702	7143104452-000	CAP-CC +80%-20% 0.1UF/50V -AT-COATED TYPE	
S.W. BKT & CHAS R X2	8015113008-000	SCREW BIND(+) M3X8MML TRIANGLE MACHING ZINC	
	8223113006-000	SCREW BIND(+) MACH M3X6 ZINC W/GEAR WASHER	
NECK BOARD&BOTTOM GROUND X	8223114008-000	SCREW BID(+) MACH M4X8 W/GEAR WASHER ZN3C	
PCB&SW BKTX3,CHASR&PCB SLO	8418113010-000	SCREW BIND(+) TAPPING M3X10 ZINE "P" TYPE	
FOR I/O CABLE	C001111052-000	CRT BRAID WIRE ASS'Y	
FOR CRT BRAID WIRE	C001132823-000	CRT BRAID WIRE ASS'Y	
FOR AC SOCKET GND	C459423010-000	GND WIRE UL1015 AWG18 GRN/YEL	
FOR CONTROL PANAL TO GND	C459433L10-000	GND WIRE ASS'Y	
FOR BZL TO DEF	C459433L30-000	GND WIRE ASS'Y BRN 210MM	
FOR AC SOCKET TO PW-SW	C460423011-000	WIRE UL1617 #22 ASS'Y	
	C488020130-000	CONN. 2P & WIRE ASS'Y	
FOR VIDEO R INPUT	C488021118-000	CONN. 2P & WIRE ASS'Y	
FOR VIDEO G INPUT	C488021119-000	CONN. 2P & WIRE ASS'Y	
FOR VIDEO B INPUT	C488021120-000	CONN. 2P & WIRE ASS'Y	
POWER TO SW	C488030162-000	CONN. 3P & WIRE ASS'Y	
FOR VIDEO TO POWER	C488030163-000	CONN. 3P & WIRE ASS'Y	
FOR VR	C488032149-000	CONN. 3P WIRE ASS'Y	
FOR YOKE	C488040051-000	CONN. 4P WIRE & CORE ASS'Y	
FOR CONTROL BOARD	C488050043-000	CONN. 5P & WIRE ASS'Y	
FOR H/V SYNC INPUT	C488052045-000	CONN. 5P & WIRE ASS'Y	
LOGIC TO POWER	C488070020-000	CONN. 7P & WIRE ASS'Y	
FOR TO POWER	C488110010-000	CONN. 11P & WIRE ASS'Y	

LOCATION	PART NO.	DESCRIPTION	REMARKS
	2009083080-000	PIN CONNECTOR	
	2029094230-000	#COVER DF B	
	2033094330-000	#STAY A	
	5560020002-000	CORE FAIRRI (R-26X29X12.5)	
	8418113010-000	SCREW BIND(+) TAPPING M3X10 ZINE "P" TYPE	
	C488090012-000	CONN. 9P & WIRE ASS'Y	
"S"	4141087401-000	#P.C.B. DEF	
305(HZ7B2),D312(1N4148)	41009810N0-000	TRS. MTP8N10 TO-220	
305(HZ7B2),D312(1N4148)	41009810P0-000	TRS. MTP8P10 TO-220	
A),Q307(RFP12P10),D312(JUM	41205006C3-000	DIODE ZENER 6.2V HZ6C-3 -AT-	
A),Q307(RFP12P10),D312(JUM	41205007B1-000	DIODE ZENER HZ7B1 -AT-	
C201,211,218,228,248,301	5134104452-000	CAP-CC +80%-20% 0.1UF/50V SC45F -RT-	
C203	5116332150-000	CAP-MC +-10% 0.0033UF/50V -RT-	
C204	5116333111-000	CAP-MC +-10% 0.033UF/100V -RT-	
C206,214,215,233	5116103150-000	CAP-MC +-10% 0.01UF/50V -RT-	
C207	5195392573-000	CAP-MPP +-5% 0.0039UF/1.6KVH-SF- (PMHA)	
C208,212,240	515A109T50-000	CAP-EC +-20% 1UF/50V -RT-	
C209,221,303,305	5101221152-000	CAP-CC +-10% 220PF/50V -RT-	
C210	5116102150-000	CAP-MC +-10% 0.001UF/50V -RT-	
C213,306	5116104150-000	CAP-MC +-10% 0.1UF/50V -RT-	
C216	5101102152-000	CAP-CC +-10% 1000PF/50V -RT-	
C217	515A479T25-000	CAP-EC +-20% 4.7UF/25V -RT-	
C219	5101102132-000	CAP-CC +-10% 1000PF/1KV -RT-	
C220	515A100S03-000	CAP-EC +-20% 10UF/250V -SF-	
C223,237,313	5074104102-000	CAP-MP +-10% 0.1UF/250V -SF-	
C224	515A470T50-000	CAP-EC +-20% 47UF/50V -RT-	
C225	515F222S16-000	CAP-EC +-20% 2200UF/16V -SF-	
C226	515F102S16-000	CAP-EC +-20% 1000UF/16V -SF-	
C227	515A470T25-000	CAP-EC +-20% 47UF/25V -RT-	
C229,239	5074335102-000	CAP-MP +-10% 3.3UF/250V -SF-	
C231	515A101S50-000	CAP-EC +-20% 100UF/50V -SF-	
C232	51041034C3-000	CAP-CC +80%-20% 0.01UF/2KV -SF-	
C234	51901525A3-000	CAP-MPP +-5% 1500PF/2KV -SF-	
C235	515A220S09-000	CAP-EC +-20% 22UF/350V -SF-	
C236	5074684101-000	CAP-MP +-10% 0.68UF/100V -SF-	
C241	51014711C3-000	CAP-CC +-10% 470PF/2KV -SF-	
C242	5195224543-000	CAP-MPP +-5% 0.22UF/400V -SF-PMA	
C245	5190684543-000	CAP-MPP +-5% 0.68UF/400V -SF-	
C246	5190274543-000	CAP-MPP +-5% 0.27UF/400V -SF-	
C247	5190154543-000	CAP-MPP +-5% 0.15UF/400V -SF-	
C252	515A101T10-000	CAP-EC +-20% 100UF/10V -RT-	
C253	5074104112-000	CAP-MP +-10% 0.1UF/1200V -SF-	
C255	5128151552-000	CAP-CC +-5% 150PF/50V -RT-	
C256,316	5128331552-000	CAP-CC +-5% 330PF/50V -RT-	
C270	5116222150-000	CAP-MC +-10% 0.0022UF/50V -RT-	
C281	5104103433-000	CAP-CC +80%-20% 0.01UF/1KV -SF-	
C302,307,311	5134104452-000	CAP-CC +80%-20% 0.1UF/50V SC45F -RT-	
C304	5092682185-000	CAP-PP +-10% 0.0068UF/250V -RT-	
C308	515A101S35-000	CAP-EC +-20% 100UF/35V -SF-	
C310	515A100T01-000	CAP-EC +-20% 10UF/100V -RT-	
C312	515A101T25-000	CAP-EC +-20% 100UF/25V -RT-	
C314	515A101S01-000	CAP-EC +-20% 100UF/100V -SF-	
C315	5084474505-000	CAP-MP +-5% 0.47UF/50V -SF-	
C320	5101471152-000	CAP-CC +-10% 470PF/50V -RT- (CKB)	
CHASSIS	5530200102-000	CORD CRAMPER TH-A	
CP14	5128561552-000	CAP-CC +-5% 560PF/50V -RT-	
CP15	5074224163-000	CAP-MP +-10% 0.22UF/63V -SF-	
CP16	515A339T50-000	CAP-EC +-20% 3.3UF/50V -RT-	
D201	2007791030-000	HEAT SINK (S)	
D201	4130303410-000	DIODE 3TH41 3A -AT-	
D205-207,221,222,275,276,	4120141480-000	DIODE 1N4148 (SI) -AT-	
D208,211,212,214,215,218	413010010J-000	DIODE RGP10J-5390 1A 600V -AT-	
D209	413010010A-000	DIODE RGP10A-5300 1A -A T- 50V	
D210,280,281	413010010A-000	DIODE RGP10A-5300 1A -A T- 50V	
D213,217,223,227	4130010212-000	DIODE RGP02-12 -AT-	
D219,220,224-226,240,241	413010010J-000	DIODE RGP10J-5390 1A 600V -AT-	
D232,233	413010301K-000	DIODE RG1K-5390 -AT-	
D279	413010010J-000	DIODE RGP10J-5390 1A 600V -AT-	
D282,301,302,DP2,4	4120141480-000	DIODE 1N4148 (SI) -AT-	
D303-306,313,314	4120104002-000	DIODE 1N4002 -AT-	
D312 MATCH Q306(BUK453-100	5406100000-000	JUMP WIRE 0.6¢	

BILL OF MATERIAL (PARTS FOR DEF) 07/21/'92

LOCATION	PART NO.	DESCRIPTION	REMARKS
D312 MATCH Q306(MTP8N10),	4120141480-000	DIODE 1N4148 (SI) -AT-	
D421-425	4120141480-000	DIODE 1N4148 (SI) -AT-	
DAUGHTER-1	4141088200-000	#P.C.B. DAUGHTER	
DP1	4130101104-000	DIODE 11D004	
DP3	413020426C-000	DIODE 2.3A/600V BYM26C -AT-	
FOR 9P WIRE X3, COVER X2	5541025095-000	CABLE TIE 2.5X90	
FOR ABL, CLAMP 15V TO VIDE	C488030114-000	CONN. 3P & WIRE ASS'Y	
FOR BRIGHTNESS	C488030165-000	CONN. 3P WIRE ASS'Y	
FOR BZL TO DEF	C459433L40-000	GND WIRE ASS'Y BRN 320MM	
FOR C220	5290015000-000	TUBE-SHRINK D=15¢	
FOR CHASSIS	5530200101-000	CORD CRAMP TH-C	
FOR DEF TO LOGIC	C459162020-000	GND WIRE ASS'Y BLU	
FOR DEF TO LOGIC	C488122010-000	CONN. 12P & WIRE ASS'Y	
FOR DEF TO SUB NECK	C460433L10-000	CORE WIRE ASS'Y	
FOR DEF TO SUB-NECK	C460423L10-000	WIRE & CORE ASS'Y	
FOR DPCB CHAS X4	8223113008-000	SCREW BID(+) ZN3C M3X8XP0.5 W/GEAR WASHER	
FOR DPCB CHAS X5	2016094230-000	STUD M3X12	
FOR G1	5318214814-000	WIRE 1015 #18 BRN 470-TERM 1.8¢	
FOR SUB NECK	9009094235-000	SUB-NECK SHEET	
FOR SUB-NECK	2008094235-000	SUB NECK SHIELD	
FOR YOKE	4490400207-000	CONN. 4P WAFER ROUND PIN	
IC202	4159356000-000	IC LF356N	
IC203	4159140940-000	IC MC14094	
IC204	4159337000-000	IC LM337T	
IC205	4152741230-000	IC 74LS123	
IC402	4159140130-411	IC MC14013BCP	
L202	4323501003-000	COIL CHOKE 500UH -SF-	
L203	708S204230-000	COIL LINEARITY -SF-	
L209	4321220006-000	COIL PEAKING 22UH -AT-	
L210	4321100006-000	COIL PEAKING 10UH -AT-	
L211	4321151006-000	COIL PEAKING 150UH -AT-	
L213	4323150003-000	COIL CHOKE 15UH -SF-	
NECK TO DEF & VIDEO BOARD	C459162010-000	GND WIRE ASS'Y BLK	
Q201,303	4114422220-000	TRS. PH2222 TO-92 -RT-	
Q202,301,302	411442907A-000	TRS. PH2907A TO-92 -RT-	
Q204,220	411022655Y-000	TRS. 2SC2655-Y TO-92M -RT-	
Q205,208,209,211,213,313	411020945P-000	TRS. 2SC945P TO-92 -RT-	
Q206	2007194230-000	HEAT SINK A	
Q206	410023886A-000	TRS. 2SC3886A TO-3P	
Q206	8283113010-000	SCREW ZINC M3X10 W/SPRING WASHER	
Q207	4110009660-000	TRS. 2SA966 TPE6 TO-92M -RT-	
Q210,312	4110007330-000	TRS. 2SA733 TO-92M -RT-	
Q214	4100226880-000	TRS. 2SC2688 TO-126	
Q216	1005083030-127	STAND TO-220 -SF-	
Q216	2046194000-000	HEAT SINK (F)	
Q216	410584552B-000	TRS. BUK 455-200B TO-220	
Q216	8504113006-000	SCREW BID(+) M3X6 MACH W/DISK WASH ZINC	
Q217,218	4105845528-000	TRS. BUK 455-200B TO-220	
Q221	2007194230-000	HEAT SINK A	
Q221	410023884A-000	TRS. 2SC3884A TO-3P	
Q221	8283113010-000	SCREW ZINC M3X10 W/SPRING WASHER	
Q222,237,304,305	410030669A-000	TRS. 2SD669A TO-126	
Q235	1005083030-127	STAND TO-220 -SF-	
Q235	2046194000-000	HEAT SINK (F)	
Q235	4100226880-000	TRS. 2SC2688 TO-126	
Q235	8504113008-000	SCREW BIND(+) M3X8 MACH W/DISK WASH ZINC	
Q236	2007194230-000	HEAT SINK A	
Q236	4100247420-000	TRS. 2SC4742	
Q236	5520131400-000	INSULATOR SI-RUBBER	
Q236	8283113010-000	SCREW ZINC M3X10 W/SPRING WASHER	
Q238,308	410010649A-000	TRS. 2SB649A TO-126	
Q306 MATCH Q307(MTP8P10),Z	41009810N0-000	TRS. MTP8N10 TO-220	
Q306 MATCH Q307(RFP12P10),	410584531A-000	TRS. BUK453-100A TO-220	
Q306,307	2022094180-000	TRANSISTER ANGLE	
Q306,307	2030094230-000	#HEAT SINK E	
Q306,307	5520131400-000	INSULATOR SI-RUBBER	
Q306,307	8283113012-000	SCREW ZINC M3X12 W/SP WASHER	
Q307 MATCH Q306(BUK453-100	4105112P10-000	TRS. RFP12P10	
Q307 MATCH Q306(MTP8N10),Z	41009810P0-000	TRS. MTP8P10 TO-220	
Q307(MTP8P10),D312(1N4148)	4120500782-000	DIODE ZENER HZ7B2 -AT-	
Q307(MTP8P10),ZD305(HZ7B2)	4120141480-000	DIODE 1N4148 (SI) -AT-	

LOCATION	PART NO.	DESCRIPTION	REMARKS
Q307(RFP12P10),ZD305(HZ6C3	5406100000-000	JUMP WIRE 0.6¢	
Q310	411030667A-000	TRS. 2SD667A TO-92M -RT-	
Q311	410320042C-000	TRS. TIP42C TO-220	
QP6	1003090000-195	NYLON BUSHING	
QP6	2007791030-000	HEAT SINK (S)	
QP6	3011100030-000	NUT ISO HEX M3 ZINC	
QP6	3211300000-000	WASHER SPRING M3 5.2¢X3.2¢X0.8T	
QP6	4101510100-000	TRS. 2SK1010 TO-220	
QP6	5520100004-000	INSULATOR, SI-RUBBER TO-220 (W/HOLE)	
QP6	8504113008-000	SCREW BIND(+) M3X8 MACH W/DISK WASH ZINC	
QP7	411020945P-000	TRS. 2SC945P TO-92 -RT-	
R200,209,220,227,233,259	4050410355-000	RES-CF 1/4W +-5% 10KR -AT-	
R201,231,242,243,244,290	4050422255-000	RES-CF 1/4W +-5% 2.2KR -AT-	
R202,240	4050420255-000	RES-CF 1/4W +-5% 2KR -AT-	
R203	4177368953-000	RES-MOF 3W +-5% 6.8R (SMALL SIZE)	
R204	4172010056-000	RES-MOF 2W +-5% 10R -AT-	
R206,306	4050422355-000	RES-CF 1/4W +-5% 22KR -AT-	
R207	4171068156-000	RES-MOF 1W +-5% 680R -AT-	
R208	4050420155-000	RES-CF 1/4W +-5% 200R -AT-	
R210,241,262,280	4050410555-000	RES-CF 1/4W +-5% 1MR -AT-	
R211,212	4050433555-000	RES-CF 1/4W +-5% 3.3MR -AT-	
R213,219,221,249	4050427355-000	RES-CF 1/4W +-5% 27KR -AT-	
R214	4050210255-000	RES-CF 1/2W +-5% 1KR -AT-	
R217	4077B12155-000	RES-MF 1/2W +-5% 120R SMALL -AT-	
R222	4050468355-000	RES-CF 1/4W +-5% 68KR -AT-	
R224,307,313,314,324-326	4050410155-000	RES-CF 1/4W +-5% 100R -AT-	
R225	4050415355-000	RES-CF 1/4W +-5% 15KR -AT-	
R226	4050456155-000	RES-CF 1/4W +-5% 560R -AT-	
R228	4171030156-000	RES-MOF 1W +-5% 300R -AT-	
R229,230	4050415255-000	RES-CF 1/4W +-5% 1.5KR -AT-	
R232,234,235,257,260,272	4050410255-000	RES-CF 1/4W +-5% 1KR -AT-	
R236	4050227155-000	RES-CF 1/2W +-5% 270R -AT-	
R237,237'	4072024355-000	RES-MF 2W +-5% 24KR -AT-	
R238	4050424155-000	RES-CF 1/4W +-5% 240R -AT-	
R239	4072043255-000	RES-MF 2W +-5% 4.3KR -AT-	
R245-247	4050422055-000	RES-CF 1/4W +-5% 22R -AT-	
R248,250,251	4050412355-000	RES-CF 1/4W +-5% 12KR -AT-	
R252	4050447155-000	RES-CF 1/4W +-5% 470R -AT-	
R253	4050422455-000	RES-CF 1/4W +-5% 220KR -AT-	
R254,300	4050447255-000	RES-CF 1/4W +-5% 4.7KR -AT-	
R255,273,336	4050410455-000	RES-CF 1/4W +-5% 100KR -AT-	
R256	4171033156-000	RES-MOF 1W +-5% 330R -AT-	
R261	4256041602-000	RES-PR MF 1/4W +-1% 16KR -AT-	
R263,282,321,334,335,403	4050410355-000	RES-CF 1/4W +-5% 10KR -AT-	
R265	4172062056-000	RES-MOF 2W +-5% 62R -AT-	
R266,266'	4177322356-000	RES-MOF 3W +-5% 22KR -AT- SMALL SIZE	
R267	4050236155-000	RES-CF 1/2W +-5% 360R -AT-	
R268-270	4060233415-000	RES-CC 1/2W +-10% 330KR -AT-	
R271	4050222455-000	RES-CF 1/2W +-5% 220KR -AT-	
R274,330	4050451355-000	RES-CF 1/4W +-5% 51KR -AT-	
R277,332	4050447055-000	RES-CF 1/4W +-5% 47R -AT-	
R279	4050430355-000	RES-CF 1/4W +-5% 30KR -AT-	
R281	4050247255-000	RES-CF 1/2W +-5% 4.7KR -AT-	
R283 FOR SAMPO FBT	4256041653-000	RES-PR MF 1/4W +-1% 165KR -AT-	
R284,322,323,405,RP17,24	4050410255-000	RES-CF 1/4W +-5% 1KR -AT-	
R293	4050475355-000	RES-CF 1/4W +-5% 75KR -AT-	
R296	4256041872-000	RES-PR MF +-1% 18.7KR -AT-	
R298	4256043901-000	RES-PR MF 1/4W +-1% 3.9KR -AT-	
R299	4256046201-000	RES-PR MF 1/4W +-1% 6.2KR -AT-	
R301,308	4050422255-000	RES-CF 1/4W +-5% 2.2KR -AT-	
R302	4050482155-000	RES-CF 1/4W +-5% 820R -AT-	
R303,304	4050456255-000	RES-CF 1/4W +-5% 5.6KR -AT-	
R305	4050418355-000	RES-CF 1/4W +-5% 18KR -AT-	
R310	4171015353-000	RES-MOF 1W +-5% 15KR -SF-	
R311	4050430055-000	RES-CF 1/4W +-5% 30R -AT-	
R315,316	4071047855-409	RES-MF 1W +-5% 0.47R -AT-	
R317	4071039955-409	RES-MF 1W +-5% 3.9R -AT-	
R318	4071051955-409	RES-MF 1W +-5% 5.1R -AT-	
R320	4050222155-000	RES-CF 1/2W +-5% 220R -AT-	
R327	4050424255-000	RES-CF 1/4W +-5% 2.4KR -AT-	
R328,355	4050418155-000	RES-CF 1/4W +-5% 180R -AT-	

LOCATION	PART NO.	DESCRIPTION	REMARKS
R329	4050410155-000	RES-CF 1/4W +-5% 100R -AT-	
R333	4050436355-000	RES-CF 1/4W +-5% 36KR -AT-	
R401	4050420355-000	RES-CF 1/4W +-5% 20KR -AT-	
R402	4072051955-409	RES-MF 2W +-5% 5.1R -AT-	
R404	4050422155-000	RES-CF 1/4W +-5% 220R -AT-	
R406	4050439255-000	RES-CF 1/4W +-5% 3.9KR -AT-	
R407	4050212155-000	RES-CF 1/2W +-5% 120R -AT-	
R408,414	4172013156-000	RES-MOF 2W +-5% 130R -AT-	
R409-411	4050410355-000	RES-CF 1/4W +-5% 10KR -AT-	
R412	4256041001-000	RES-PR MF 1/4W +-1% 1KR -AT-	
R413 FOR SAMPO FBT	4256021503-000	RES-PR MF 1/2W +-1% 150KR -AT-	
R419	4050415155-000	RES-CF 1/4W +-5% 150R -AT-	
R422	4050439055-000	RES-CF 1/4W +-5% 39R -AT-	
R424	4172043956-000	RES-MOF 2W +-5% 4.3R -AT-	
R427	4172039956-000	RES-MOF 2W +-5% 3.9R -AT-	
R441	4050410155-000	RES-CF 1/4W +-5% 100R -AT-	
R442	4050420255-000	RES-CF 1/4W +-5% 2KR -AT-	
R451 FOR SAMPO FBT	4050410555-000	RES-CF 1/4W +-5% 1MR -AT-	
R453,454	4172056356-000	RES-MOF 2W +-5% 56KR -AT-	
R455	4171018356-000	RES-MOF 1W +-5% 18KR -AT-	
RP16	4050424055-000	RES-CF 1/4W +-5% 24R -AT-	
RP20	4050412155-000	RES-CF 1/4W +-5% 120R -AT-	
T201	705091423L-000	@HOR.O/P X'FORMER	
T202,204	705020423L-000	@DRIVE TRANSFORMER	
T203 "S"	7174230000-000	TRANSDUCER CURRENT SENSOR	
T205	705030423L-000	F.B.T.	
TP1	705025423L-000	DRIVE TRANSFORMER	
TP2	4320103003-000	CHOKE COIL 10MH W/BOBBIN	
VR201	5224150220-000	POT SFR 1/2W 5KR -SF-	
VR202	5224125420-000	POT SFR 1/2W 250KR -SF-	
VR204	5224110420-000	POT SFR 1/2W 100KR (TM8KV2-3S)	
ZD201,206	4120547420-000	DIODE ZENER 1N4742 -AT-	
ZD203	41205009C1-000	DIODE ZENER HZ9C1 -AT-	
ZD205	4120500561-000	DIODE ZENER RD5.1EB2 1/2W -AT-5.1V	
ZD301	4120547400-000	DIODE ZENER 1N4740A -AT-	
ZD305 MATCH Q306(BUK453-10	41205006C3-000	DIODE ZENER 6.2V HZ6C-3 -AT-	
ZD305 MATCH Q306(BUK453-10	41205007B1-000	DIODE ZENER HZ7B1 -AT-	
ZD305 MATCH Q306(MTP8N10),	41205007B2-000	DIODE ZENER HZ7B2 -AT-	
ZD305(HZ6C3,HZ7B1)D312(JUM	4105112P10-000	TRS. RFP12P10	
ZD305(HZ6C3,HZ7B1)D312(JUM	410584531A-000	TRS. BUK453-100A TO-220	

BILL OF MATERIAL (PARTS FOR SPS) 07/21/'92

LOCATION	PART NO.	DESCRIPTION	REMARKS
	4141085300-000	#P.C.B. SPS	
BD1	4130600608-000	DIODE RBV-608 6A/800V	
C1	5065105425-559	CAP-MPR +-20% 1UF/250V -SF-	
C10,11	515L331S03-000	CAP-EC +-20% 330UF/250V KMG -SF-	
C12	5074104102-000	CAP-MP +-10% 0.1UF/250V -SF-	
C13	5101221193-000	CAP-CC +-10% 220PF/3KV -SF-	
C14	515X471S35-000	#CAP-EC +-20% 470UF/35V 10X20 -SF-	
C15	5156339T50-000	CAP-EC +-20% 3.3UF/50V -RT-	
C17	5128151552-000	CAP-CC +-5% 150PF/50V -RT-	
C19	5128470552-000	CAP-CC +-5% 47PF/50V -RT-	
C21	5074474163-000	CAP-MP +-10% 0.47UF/63V -SF-	
C22	5156479T50-000	CAP-EC +-20% 4.7UF/50V -RT-	
C23	5128471552-000	CAP-CC +-5% 470PF/50V -RT-	
C24,54	5144102550-000	CAP-P +-5% 1000PF/50V -SF-	
C25	5104103452-000	CAP-CC +80%-20% 0.01UF/50V -RT-	
C28	515F102S16-000	CAP-EC +-20% 1000UF/16V -SF-	
C30	515F471S25-000	CAP-EC +-20% 470UF/25V -SF-	
C31,32,33	515F221S01-000	CAP-EC +-20% 220UF/100V -SF-	
C34	515A100S09-000	CAP-EC +-20% 10UF/350V -SF-	
C35	515F101S01-000	CAP-EC +-20% 100UF/100V -SF- 10X30MM	
C36,37	5103103243-000	CAP-CC +-20% 0.01UF/500V -SF-	
C38,41	515F102S35-000	CAP-EC +-20% 1000UF/35V -SF-	
C42	515F102S25-000	CAP-EC +-20% 1000UF/25V -SF-	
C43,44	515A221S35-000	CAP-EC +-20% 220UF/35V -SF-	
C48	5074104501-000	CAP-MP +-5% 0.1UF/100V -SF-	
C49	5074104163-000	CAP-MP +-10% 0.1UF/63V -SF-	
C5,6	5061103440-107	CAP-CCS +-20% 0.01UF/400V -SF-	
C501	5190104163-000	CAP-MPP +-10% 0.1UF/630V -SF-	
C502	5070225504-000	CAP-MP +-5% 2.2UF/400V	
C503	5156222S16-000	CAP-EC +-20% 2200UF/16V -SF-	
C504	5116223250-000	CAP-MC +-20% 0.022UF/50V -RT-	
C505	5158331S16-000	CAP-EC +-20% 330UF/16V -SF-	
C506	5116104111-000	CAP-MC +-10% 0.1UF/100V -RT-	
C52,69	5074224163-000	CAP-MP +-10% 0.22UF/63V -SF-	
C53,55,58	5134104452-000	CAP-CC +80%-20% 0.1UF/50V SC45F -RT-	
C56	515A100T25-000	CAP-EC +-20% 10UF/25V -RT-	
C67	5190153583-000	CAP-MPP +-5% 0.015UF/250V -SF-	
C68	515A229T50-000	CAP-EC +-20% 2.2UF/50V -RT-	
C7	5156470T25-000	CAP-EC +-20% 47UF/25V -RT-	
C70	515X470S03-000	CAP-EC +-20% 47UF/250V -SF-	
C71	515X330S03-000	#CAP-EC +-20% 33UF/250V -SF-	
C72	5101561152-000	CAP-CC +-10% 560PF/50V -RT-	
C74	5116393150-000	CAP-MC +-10% 0.039UF/50V -RT-	
C8,16,20,39,40,46,47,51	5134104452-000	CAP-CC +80%-20% 0.1UF/50V SC45F -RT-	
C9	5144561550-000	CAP-P +-5% 560PF/50V -SF-	
D1,2,3	413010426C-000	DIODE BYV26C KINK FORMING -AT-	
D13	2009194310-000	HEAT SINK	
D13	4130304311-000	DIODE 31DF1 -AT-	
D14,15	413020426C-000	DIODE 2.3A/600V BYM26C -AT-	
D16,23	41303031F4-000	DIODE 3A/400V 35NS 31DF4 -AT-	
D17	2009194310-000	HEAT SINK	
D17	4130304312-000	DIODE 31DF2 -AT-	
D18	4130304312-000	DIODE 31DF2 -AT-	
D19,20,24	4120104001-000	DIODE 1N4001 -AT-	
D22,25	4130101104-000	DIODE 11DQ04	
D4,5,6,8,9,10,11,12	4120146060-000	DIODE 1N4606 (SI) -AT-	
D501	4120104007-000	DIODE 1N4007 -AT-	
D502,503	4120104002-000	DIODE 1N4002 -AT-	
F1	4692300001-000	CLIP-FUSE 5MM	
F1	5266300060-000	FUSE 3A/250V	
FOR SK2	4490200207-000	CONN. 2P WAFER ROUND PIN 10MM	
IC3,5,501	415943100A-000	IC TL431 REGULATOR TO-92 -RT-	
IC4	1005083030-127	STAND TO-220 -SF-	
IC4	2046194000-000	HEAT SINK (F)	
IC4	4159781201-000	IC MC7812	
IC4	8504113008-000	SCREW BIND(+) M3X8 MACH W/DISK WASH ZINC	
IC6	41593524A0-000	IC UC3524AN	
L1-5,8	C432300001-000	CHOKE COIL 20UH	
L10	706433L471-000	TOROID ASS'Y 470UH W/TUBE	
L11	706423L471-000	TOROID ASS'Y 470UH/2A	
L12	4322209046-000	COIL CHOKE 2UH -AT-	

LOCATION	PART NO.	DESCRIPTION	REMARKS
L6	4322309006-000	COIL FERRITE 1 PASS -AT-	
L7	4320405003-000	CHOKE COIL 4MH W/BOBBIN	
L9	4321680006-000	COIL PEAKING 68UH -AT-	
PH1	4159435002-000	POTO COUPLER X'STER 4N35 W=10 MM	
PTCR	7021134091-000	PTCR PTH451C262BF140M270	
Q1	411442907A-000	TRS. PH2907A TO-92 -RT-	
Q11	4111139040-000	TRS. 2N3904 TO-92 -RT-	
Q12	4111139060-000	TRS. 2N3906 TO-92 -RT-	
Q13	1003090000-195	NYLON BUSHING	
Q13	2007791030-000	HEAT SINK (S)	
Q13	3011100030-000	NUT ISO HEX M3 Z1NC	
Q13	3211300000-000	WASHER SPRING M3 5.2¢X3.2¢X0.8T	
Q13	4101510100-000	TRS. 2SK1010 TO-220	
Q13	5520100004-000	INSULATOR SI-RUBBER TO-220 (W/HOLE)	
Q13	8504113010-000	SCREW BIND(+) M3X10 MACH W/DISK WASHER ZINC	
Q5	4101595601-000	TRS. 2SK956-01	
Q5	5520191001-000	INSULATOR SI-RUBBER TO-3P (W/HOLE)	
Q5	8504113010-000	SCREW BIND(+) M3X10 MACH W/DISK WASHER ZINC	
Q5 2SK956	2032094230-000	HEAT SINK	
Q502	4110304670-000	TRS. 2SD467 TO-92 -RT-	
Q503	1003090000-195	NYLON BUSHING	
Q503	2007791030-000	HEAT SINK (S)	
Q503	3011100030-000	NUT ISO HEX M3 Z1NC	
Q503	3211300000-000	WASHER SPRING M3 5.2¢X3.2¢X0.8T	
Q503	410116349A-000	TRIAC. 2N6349A 12A/800V W/MOUNTING KIT TO-220	
Q503	5520100004-000	INSULATOR SI-RUBBER TO-220 (W/HOLE)	
Q503	8504113010-000	SCREW BIND(+) M3X10 MACH W/DISK WASHER ZINC	
Q6	4114422220-000	TRS. PH2222 TO-92 -RT-	
Q7	1005083030-127	STAND TO-220 -SF-	
Q7	2046194000-000	HEAT SINK (F)	
Q7	41059020T0-000	TRS. IRFZ20	
Q7	8504113008-000	SCREW BIND(+) M3X8 MACH W/DISK WASH ZINC	
Q8	4114501006-000	TRS. MCR100-6 TO-92 -RT-	
Q9,10,501	4110105610-000	TRS. 2SB561 TO-92 -RT-	
R10	4050410155-000	RES-CF 1/4W +-5% 100R -AT-	
R11	4097030251-000	RES-WW 7W +-5% 3KR -SF-	
R12,13	4050418555-000	RES-CF 1/4W +-5% 1.8MR -AT-	
R15	4050420055-000	RES-CF 1/4W +-5% 20R -AT-	
R16	4050462955-000	RES-CF 1/4W +-5% 6.2R -AT-	
R17	4050451255-000	RES-CF 1/4W +-5% 5.1KR -AT-	
R19	4050430055-000	RES-CF 1/4W +-5% 30R -AT-	
R2,3	4172010456-000	RES-MOF 2W +-5% 100KR -AT-	
R20	4050447055-000	RES-CF 1/4W +-5% 47R -AT-	
R22	4050482455-000	RES-CF 1/4W +-5% 820KR -AT-	
R23	4050475255-000	RES-CF 1/4W +-5% 7.5KR -AT-	
R24,36	4050447255-000	RES-CF 1/4W +-5% 4.7KR -AT-	
R25	4050456555-000	RES-CF 1/4W +-5% 5.6MR -AT-	
R27	4256041602-000	RES-PR MF 1/4W +-1% 16KR -AT-	
R28,59	4050491255-000	RES-CF 1/4W +-5% 9.1KR -AT-	
R29,34,45,71	4050410355-000	RES-CF 1/4W +-5% 10KR -AT-	
R30	4050420155-000	RES-CF 1/4W +-5% 200R -AT-	
R37	4050415055-000	RES-CF 1/4W +-5% 15R -AT-	
R38,51	4050447155-000	RES-CF 1/4W +-5% 470R -AT-	
R39,40	4256041002-000	RES-PR MF 1/4W +-1% 10KR -AT-	
R4	4090T10011-000	RES-WW +-10% 10R W/THERMAL FUSE (130'C)	
R43,58	4171033456-000	RES-MOF 1W +-5% 330KR -AT-	
R46	4256041552-000	RES-PR MF 1/4W +-1% 15.5K -AT-	
R47,75,76	4256042701-000	RES-PR MF 1/4W +-1% 2.7KR -AT-	
R5,6	4050430355-000	RES-CF 1/4W +-5% 30KR -AT-	
R501,502	4050410355-000	RES-CF 1/4W +-5% 10KR -AT-	
R502	7101020030-959	THMER. +-15% 20R (10SP020L) 19MM	
R504	4160222555-233	RES-MG 1/2W +-5% 2.2MR -AT-	
R505	4050491355-000	RES-CF 1/4W +-5% 91KR -AT-	
R506	4050447355-000	RES-CF 1/4W +-5% 47KR -AT-	
R507	4050422555-000	RES-CF 1/4W +-5% 2.2MR -AT-	
R508,510	4050433155-000	RES-CF 1/4W +-5% 330R -AT-	
R509	4050415155-000	RES-CF 1/4W +-5% 150R -AT-	
R511	4050456955-000	RES-CF 1/4W +-5% 5.6R -AT-	
R512,515	4050410255-000	RES-CF 1/4W +-5% 1KR -AT-	
R514	4050415055-000	RES-CF 1/4W +-5% 15R -AT-	
R516	4050410555-000	RES-CF 1/4W +-5% 1MR -AT-	

BILL OF MATERIAL (PARTS FOR SPS)

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LOCATION	PART NO.	DESCRIPTION	REMARKS
R55	4071033855-409	RES-MF 1W +-5% 0.33R -AT-	
R56	4172047856-294	RES-MOF 2W +-5% 0.47R -AT-	
R65	4256042643-000	RES-PR MF 1/4W +-1% 264KR -AT-	
R66	4050410255-000	RES-CF 1/4W +-5% 1KR -AT-	
R67	4050413255-000	RES-CF 1/4W +-5% 1.3KR -AT-	
R68,78	4050430255-000	RES-CF 1/4W +-5% 3KR -AT-	
R69	4050412255-000	RES-CF 1/4W +-5% 1.2KR -AT-	
R7,21,31,32,35,52,53,60,63	4050410255-000	RES-CF 1/4W +-5% 1KR -AT-	
R72	4256041102-000	RES-PR MF 1/4W +-1% 11KR -AT-	
R74	4050420455-000	RES-CF 1/4W +-5% 200KR -AT-	
R77	4050433355-000	RES-CF 1/4W +-5% 33KR -AT-	
R8	4050412155-000	RES-CF 1/4W +-5% 120R -AT-	
R80	4050424055-000	RES-CF 1/4W +-5% 24R -AT-	
R9,33	4172010356-000	RES-MOF 2W +-5% 10KR -AT-	
RY1	4420412002-000	RELAY 12V	
SK1	4490310193-000	CONN. 3P WAFER 2 OPEN RIGHT	
SK3	4490701826-000	CONN. 7P 2.5MM	
SK6	4491100300-000	CONN. 11P WAFER SXB-XH-A 2.5MM	
T1	7064700752-000	COMMON MODE CHOKE SS28V20075	
T2	705010423L-000	POWER TRANSFORMER	
T3	705025423L-000	DRIVE TRANSFORMER	
VR1	5224150310-000	POT 50KR +-20% SMALL SIZE LAY-DOWN	
VR2	5225150110-500	POT 500R +-20% SMALL SIZE	
ZD1	41205005B1-000	DIODE ZENER HZ5B1 -AT-	
ZD2	41205002B1-000	DIODE ZENER HZ2B1 -AT-	
ZD3	4120501802-000	DIODE ZENER HZ18-2 V -AT-	
ZD4	4120502402-000	DIODE ZENER 1/2W 24V HZ24-2 -AT-	
ZD5	41205005C1-000	DIODE ZENER HZ5C1 5.1V -AT-	
ZD501,502	4120500560-000	DIODE ZENER +-5% 5.6V 40MA -AT-	

BILL OF MATERIAL (PARTS FOR NECK) 07/21/'92

LOCATION	PART NO.	DESCRIPTION	REMARKS
	4141087500-000	#P.C.B. VIDEO	
	4322849003-000	CANCELING COIL 7TS	
C101,117,131	5101103152-000	CAP-CC +-10% 0.01UF/50V -RT-	
C102,111,118,126,132,140	515A220T16-000	CAP-EC +-20% 22UF/16V -RT-	
C103-108,112,119-122,124	5134104452-000	CAP-CC +80%-20% 0.1UF/50V SC45F -RT-	
C109,123,139	515A471S16-000	CAP-EC +-20% 470UF/16V -SF-	
C113,130,144	5074224102-000	CAP-MP +-10% 0.22UF/250V -SF-	
C113,130,144	5190224183-000	CAP-MPP +-10% 0.22UF/250V -SF-	
C114	5128820552-000	CAP-CCLK +-5% 82PF/50V -RT-	
C115,129,143	5074104102-000	CAP-MP +-10% 0.1UF/250V -SF-	
C116	515E101S01-000	CAP-EC +-20% 100UF/100V -SF-	
C125,127,133-138,141	5134104452-000	CAP-CC +80%-20% 0.1UF/50V SC45F -RT-	
C128,142,161	5128101552-000	CAP-CC +-5% 100PF/50V -RT-	
C145,151,165	5103103243-000	CAP-CC +-20% 0.01UF/500V -SF-	
C154	5128330552-000	CAP-CC +-5% 33PF/50V -RT-	
C158-160	5134104452-000	CAP-CC +80%-20% 0.1UF/50V SC45F -RT-	
D103-118,120,121	4120141480-000	DIODE 1N4148 (SI) -AT-	
D119	413010010D-000	DIODE RGP10D-5302 -AT- 1A 200V	
FOR R.G.B INPUT	4490200130-000	WAFER 2P 2.5MM	
FOR VIDEO B TO NECK	C488031146-000	COAXIAL WIRE ASS'Y BLU	
FOR VIDEO G TO NECK	C488032147-000	COAXIAL WIRE ASS'Y GRN	
FOR VIDEO R TO NECK	C488031132-000	COAXIAL WIRE ASS'Y RED	
FOR VIDEO TO LOGIC	C488031115-000	CONN. 3P & WIRE ASS'Y	
FOR VIDEO TO POWER	C488031125-000	CONN. 3P & WIRE ASS'Y	
FT1	7096102250-000	FILTER FOR NOISE ZJSR5101-102 (TA)-R	
IC101,102,103	4159120100-000	IC LM1201	
J1-6	4050400055-000	RES-CF 1/4W +-5% 0 R -AT-	
L101	4322309006-000	COIL FERRITE 1 PASS -AT-	
L103-105	4321688006-000	COIL PEAKING 0.68UH +-20%	
P1	4490300130-000	CONN. 3P WAFER 2.5MM (B3B-XH-A)	
Q102,107,114	4106116200-000	TRS. BFQ162 TO-126	
Q103,108,115	2008194190-000	HEAT SINK	
Q103,108,115	3011100030-000	NUT ISO HEX M3 ZINC	
Q103,108,115	3111300750-000	WASHER FLAT M3	
Q103,108,115	41061262A0-000	TRS. BFQ262A TO-126	
Q103,108,115	5520130001-000	INSULATOR RUBBER TO-126	
Q103,108,115	8504113010-000	SCREW BIND(+) M3X10 MACH W/DISK WASHER ZINC	
Q104,110,117	41061235A0-000	TRS. BFQ235A TO-220	
Q105,109,116	41061255A0-000	TRS. BFQ255A TO-220	
Q118	410030669A-000	TRS. 2SD669A TO-126	
Q120	411020945P-000	TRS. 2SC945P TO-92 -RT-	
R101,102,103	4050256255-000	RES-CF 1/2W +-5% 5.6KR -AT-	
R104,132,160	4070475075-000	RES-MF 1/4W +-1% 75R -AT-	
R104,132,160	4256047509-000	RES-PR MF 1/4W +-1% 75R -AT-	
R105,156,161	4050410355-000	RES-CF 1/4W +-5% 10KR -AT-	
R106,107,134,137,162,163	4050420155-000	RES-CF 1/4W +-5% 200R -AT-	
R108,138,164	4050433155-000	RES-CF 1/4W +-5% 330R -AT-	
R109,136,140,165	4050410255-000	RES-CF 1/4W +-5% 1KR -AT-	
R110,141,166	4050420255-000	RES-CF 1/4W +-5% 2KR -AT-	
R111,135,175	4050491255-000	RES-CF 1/4W +-5% 9.1KR -AT-	
R112,176	4050412255-000	RES-CF 1/4W +-5% 1.2KR -AT-	
R113,139,168	4050451055-000	RES-CF 1/4W +-5% 51R -AT-	
R114,142,167	4050410155-000	RES-CF 1/4W +-5% 100R -AT-	
R115,143,169	4050424055-000	RES-CF 1/4W +-5% 24R -AT-	
R117,118,145,146,171,172	4050410055-000	RES-CF 1/4W +-5% 10R -AT-	
R119,147,173	4050422155-000	RES-CF 1/4W +-5% 220R -AT-	
R120,148,174	4050422455-000	RES-CF 1/4W +-5% 220KR -AT-	
R121,149,177	4050251955-000	RES-CF 1/2W +-5% 5.1R -AT-	
R123,124,151,152,179,180	4173012253-000	RES-MOF 3W +-5% 1.2KR -SF-	
R125,153,181	4173010253-000	RES-MOF 3W +-5% 1KR -SF-	
R126	4050447255-000	RES-CF 1/4W +-5% 4.7KR -AT-	
R127,129,131,133,154,155	4050422055-000	RES-CF 1/4W +-5% 22R -AT-	
R128	4050422255-000	RES-CF 1/4W +-5% 2.2KR -AT-	
R185	4050462255-000	RES-CF 1/4W +-5% 6.2KR -AT-	
R187	4172027156-000	RES-MOF 2W +-5% 270R -AT-	
VIDEO COVER TO VIDEO GND	C459433L20-000	GND WIRE ASS'Y	
VR101	5225110320-000	POT +-20% 10K TM8KV2-1S	
VR102	4490300040-000	CONN. 3P WAFER	
VR103-105	5225110120-000	POT SFR 1/2W 100R	
VR106-108	5225110220-000	POT +-20% 1K TM8KV2-1S	

BILL OF MATERIAL (PARTS FOR SUB NECK) 07/21/'92

LOCATION	PART NO.	DESCRIPTION	REMARKS
	4141079940-000	P.C.B. SUB.NECK	
	4570304260-000	SOCKET CRT	
C601	5190683543-000	CAP-MPP +-5% 0.068UF/400V -SF-	
C602	5074103104-000	CAP-MP +-10% 0.01UF/400V -SF-	
C603	5134104452-000	CAP-CC +80%-20% 0.1UF/50V SC45F -RT-	
C604	5190393582-000	CAP-MPP +-5% 0.039UF/250V -RT-	
C612,613	5116104150-000	CAP-MC +-10% 0.1UF/50V -RT-	
C614	5162229T50-000	CAP-NPEC +-20% 2.2UF/50V -RT-	
C615	51901035A3-303	CAP-MPP +-5% 0.01UF/2KV -SF-	
C616	5074104104-000	CAP-MP +-10% 0.1UF/400V -SF-	
C617	5103103493-000	CAP-CC +80%-20% 0.01UF/3KV -SF-	
C618,619,146A,147A	5103102293-000	CAP-CC +-20% 1000PF/3KV -SF-	
D601	413010010J-000	DIODE RGP10J-5390 1A 600V -AT-	
D602	4120141480-000	DIODE 1N4148 (SI) -AT-	
D605,606,607	4130010212-000	DIODE RGP02-12 -AT-	
NE101A-103A	4705415001-000	SURGE PROTECTOR 200V 52M -AT-	
PR01,PG02,PB03	4490200130-000	WAFER 2P 2.5MM.	
Q601	411030667A-000	TRS. 2SD667A TO-92M -RT-	
Q604,606	411020945P-000	TRS. 2SC945P TO-92 -RT-	
Q607	4100226880-000	TRS. 2SC2688 TO-126	
R122A,150A,178A	4060210115-000	RES-CC 1/2W +-10% 100R -AT-	
R184A,194A	4060210315-000	RES-CC 1/2W +-10% 10KR -AT-	
R188A	4072022955-409	RES-MF 2W +-5% 2.2R -AT-	
R601	4050420455-000	RES-CF 1/4W +-5% 200KR -AT-	
R602	4050420355-000	RES-CF 1/4W +-5% 20KR -AT-	
R603	4050420255-000	RES-CF 1/4W +-5% 2KR -AT-	
R605	4050410355-000	RES-CF 1/4W +-5% 10KR -AT-	
R606	4050427355-000	RES-CF 1/4W +-5% 27KR -AT-	
R622	4050462255-000	RES-CF 1/4W +-5% 6.2KR -AT-	
R623	4050462455-000	RES-CF 1/4W +-5% 620KR -AT-	
R624	4050451255-000	RES-CF 1/4W +-5% 5.1KR -AT-	
R625	4050416355-000	RES-CF 1/4W +-5% 16KR -AT-	
R626	4050220455-000	RES-CF 1/2W +-5% 200KR -AT-	
R627	4060215415-000	RES-CC 1/2W +-10% 150KR -AT-	
R628,629,632	4160475455-000	RES-MG 1/4W +-5% 750KR -AT-	
R630	4050212255-000	RES-CF 1/2W +-5% 1.2KR -AT-	
R631	4177310056-000	RES-MOF 3W +-5% 10R -AT- SMALL SIZE	
R634	4050420155-000	RES-CF 1/4W +-5% 200R -AT-	
R635	4050422355-000	RES-CF 1/4W +-5% 22KR -AT-	
R636	4050418455-000	RES-CF 1/4W +-5% 180KR -AT-	
R638 (J4)	4160433555-000	RES-MG 1/4W +-5% 3.3MR -AT-	
T601	705050433L-000	@FOCUS TRANSFORMER W/SHIELD	
VR602	5221150200-000	POT SEMI FIXED 5KR +-20%	
VR603	5022051040-409	VR W/SHAFT 2M OHM RATING:1000V	

BILL OF MATERIAL (PARTS FOR LOGIC) 07/21/'92

LOCATION	PART NO.	DESCRIPTION	REMARKS
	4141076207-000	P.C.B. LOGIC MAIN	
C802,807,812,816,821,823	7143104452-000	CAP-CC +80%-20% 0.1UF/50V -AT-COATED TYPE	
C805	5128681552-000	CAP-CC +-5% 680PF/50V -RT-	
C806,808,818,820,835,847	7140104214-000	CAP-CC +-20% 0.1UF/100V -RT-	
C806,808,818,820,835,847	7143104452-000	CAP-CC +80%-20% 0.1UF/50V -AT-COATED TYPE	
C809,810	5128330552-000	CAP-CC +-5% 33PF/50V -RT-	
C813	5128101552-000	CAP-CC +-5% 100PF/50V -RT-	
C814,834,845,892	7141103452-000	CAP-CC +80%-20% 0.01UF/50V -AT-	
C815,824,833,843,844,848	515A100T25-000	CAP-EC +-20% 10UF/25V -RT-	
C817,819,895	515A101T25-000	CAP-EC +-20% 100UF/25V -RT-	
C822,825,828,840	5144102550-000	CAP-P +-5% 1000PF/50V -SF-	
C826,827,830,831,846,851	7143104452-000	CAP-CC +80%-20% 0.1UF/50V -AT-COATED TYPE	
C829	5074104102-000	CAP-MP +-10% 0.1UF/250V -SF-	
C839	5144152550-000	CAP-P +-5% 1500PF/50V -SF-	
C841	5144222550-000	CAP-P +-5% 2200PF/50V -SF-	
C842	7141102452-000	CAP-CC +80%-20% 0.001UF/50V -AT-	
C849,856,859,864,869,874	7140104214-000	CAP-CC +-20% 0.1UF/100V -RT-	
C849,856,859,864,869,874	7143104452-000	CAP-CC +80%-20% 0.1UF/50V -AT-COATED TYPE	
C850,852,855,880	515A100T50-000	CAP-EC +-20% 10UF/50V -RT-	
C853,862,867	5128221552-000	CAP-CC +-5% 220PF/50V -RT-	
C854,861,863,865,866,873	7143104452-000	CAP-CC +80%-20% 0.1UF/50V -AT-COATED TYPE	
C868	5128220552-000	CAP-CC +-5% 22PF/50V -RT-	
C870,896	5128101552-000	CAP-CC +-5% 100PF/50V -RT-	
C875-877	7140104214-000	CAP-CC +-20% 0.1UF/100V -RT-	
C875-877	7143104452-000	CAP-CC +80%-20% 0.1UF/50V -AT-COATED TYPE	
C879	515A109T25-000	CAP-EC +-20% 1UF/25V -RT-	
C882,884	515A479T50-000	CAP-EC +-20% 4.7UF/50V -RT-	
C883,885,888	515A220T25-000	CAP-EC +-20% 22UF/25V -RT-	
C886,887	5101681152-000	CAP-CC +-10% 680PF/50V -RT-	
C890	7143104452-000	CAP-CC +80%-20% 0.1UF/50V -AT-COATED TYPE	
C951	515A479T50-000	CAP-EC +-20% 4.7UF/50V -RT-	
C952	5101681152-000	CAP-CC +-10% 680PF/50V -RT-	
D801-803,806-808,812-817	4120141480-000	DIODE 1N4148 (SI) -AT-	
D819-824,826-829,831-833	4120141480-000	DIODE 1N4148 (SI) -AT-	
D921,922	4120141480-000	DIODE 1N4148 (SI) -AT-	
FOR LOGIC TO DEF	C459162030-000	GND WIRE ASS'Y BLU	
FOR RN801,802	4082094725-000	RES-NET +-5% 4.7K 9P	
IC801	415983C751-000	IC S83C751-1N24	
IC802	4159240200-822	IC CAT24C02	
IC803	4152740510-000	IC 74LS51	
IC804	4152740740-000	IC 74LS74	
IC805,809	4152741230-000	IC 74LS123	
IC806,824	4150740600-000	IC 7406	
IC807	4155074080-000	IC 74HC08	
IC808	4152742211-411	IC 74LS221N	
IC810	4152740860-000	IC 74LS86	
IC811,823	4159319000-000	IC LM319N	
IC812,815	4155744052-233	IC PC 744052P	
IC813	4159404600-000	IC HEF4046BP	
IC814	4159228200-000	IC ML2282	
IC816,818	4159340040-000	IC MC34004	
IC817,819	4152740140-000	IC 74LS14	
IC820,821	41598444N0-000	IC TDA8444N	
IC822	4159220800-000	IC XR-2208CP	
IC825	4159008080-000	IC DAC0808	
IC826	4159140940-000	IC MC14094	
IC827	4159340020-000	IC MC34002P	
IC828	415978L12A-000	IC LM78L12AC TO-92 -RT-	
IC829,830	415943100A-000	IC TL431 REGULATOR TO-92 -RT-	
IC831	4159791500-000	IC 7915CT	
L801,802	4321229006-000	COIL PEAKING 2.2UH -AT-	
L804	4321102006-000	COIL PEAKING 1.0MH -AT-	
P801,806,809	4490500130-000	CONN. 5P WAFER 2.5MM	
P803	4490700130-000	CONN. 7P WAFER P221 B-XH-A	
P804	4490300130-000	CONN. 3P WAFER 2.5MM (B3B-XH-A)	
P805	4490500158-000	CONN 5P 5045-05A	
P807	4491200130-000	CONN. 12P B12B-XH-A	
P808	4490200130-000	WAFER 2P 2.5MM	
P810	4490600130-000	CONN. 6P WAFER 2.5MM B-XH-A/P221	
Q801	4111139040-000	TRS. 2N3904 TO-92 -RT-	
Q802	4115609100-000	TRS. MPF910 -RT-	

BILL OF MATERIAL (PARTS FOR LOGIC)

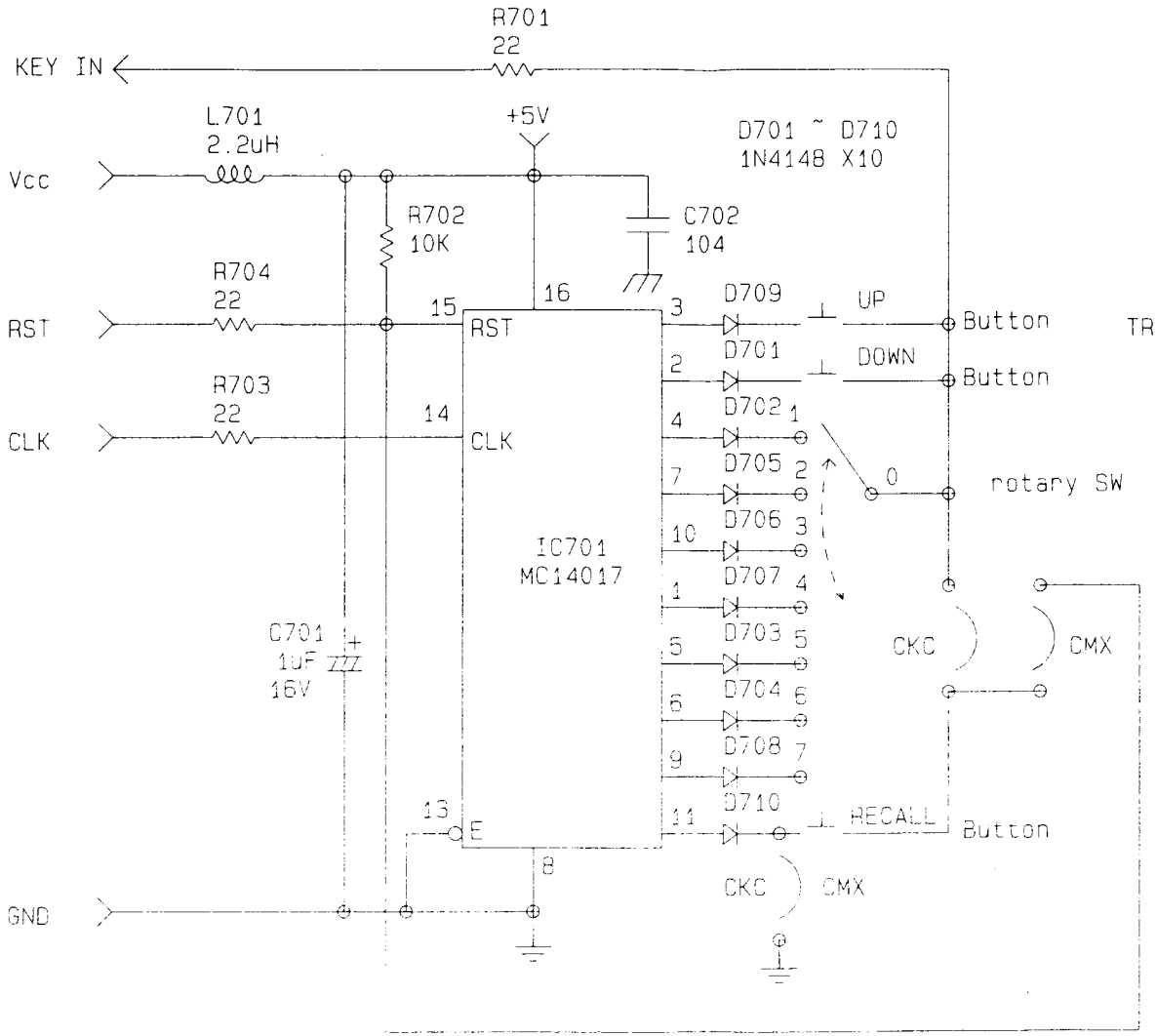
07/21/'92

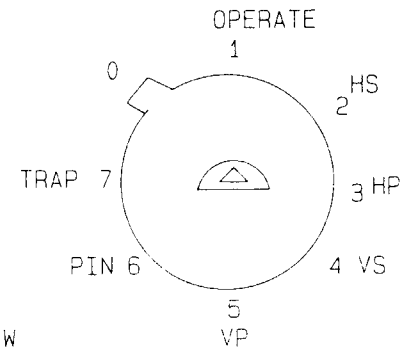
LOCATION	PART NO.	DESCRIPTION	REMARKS
R801,848,849,855,889-891	4050422055-000	RES-CF 1/4W +-5% 22R -AT-	
R802,807,835,839,866,901	4050422255-000	RES-CF 1/4W +-5% 2.2KR -AT-	
R803,804,819,822,850,868	4050447255-000	RES-CF 1/4W +-5% 4.7KR -AT-	
R805,853,870,871,873,882	4256041002-000	RES-PR MF 1/4W +-1% 10KR -AT-	
R808	4050422555-000	RES-CF 1/4W +-5% 2.2MR -AT-	
R809,844,845	4050420255-000	RES-CF 1/4W +-5% 2KR -AT-	
R810	4050410355-000	RES-CF 1/4W +-5% 10KR -AT-	
R811	4050247155-000	RES-CF 1/2W +-5% 470R -AT-	
R812	4050456155-000	RES-CF 1/4W +-5% 560R -AT-	
R813,896,897	4256041781-000	RES-PR MF 1/4W +-1% 1.78KR -AT-	
R814	4050422355-000	RES-CF 1/4W +-5% 22KR -AT-	
R815,817	4256041202-000	RES-PR MF 1/4W +-1% 12KR -AT-	
R816	4256041552-000	RES-PR MF 1/4W +-1% 15.5K -AT-	
R818	4256041392-000	RES-PR MF 1/4W +-1% 13.9KR -AT-	
R821	4050424355-000	RES-CF 1/4W +-5% 24KR -AT-	
R823,827,834,843,886,903	4050410455-000	RES-CF 1/4W +-5% 100KR -AT-	
R824,895	4050447155-000	RES-CF 1/4W +-5% 470R -AT-	
R825	4050410555-000	RES-CF 1/4W +-5% 1MR -AT-	
R826,910	4256043002-000	RES-PR MF 1/4W +-1% 30KR -AT-	
R828	4050415455-000	RES-CF 1/4W +-5% 150KR -AT-	
R829,952	4256041102-000	RES-PR MF 1/4W +-1% 11KR -AT-	
R830	4256041962-000	RES-PR MF 1/4W +-1% 19.6KR -AT-	
R831	4256042442-000	RES-PR MF 1/4W +-1% 24.4K -AT-	
R836	4256042001-000	RES-PR MF 1/4W +-1% 2KR -AT-	
R840	4256046191-000	RES-PR MF 1/4W +-1% 6.19KR -AT-	
R841	4050410155-000	RES-CF 1/4W +-5% 100R -AT-	
R842	4050439255-000	RES-CF 1/4W +-5% 3.9KR -AT-	
R846	4050430255-000	RES-CF 1/4W +-5% 3KR -AT-	
R847	4077847155-000	RES-MF 1/2W +-5% 470R SMALL SIZE	
R851	4050415255-000	RES-CF 1/4W +-5% 1.5KR -AT-	
R852,861,925	4256041601-000	RES-PR MF 1/4W +-1% 1.6KR -AT-	
R854,872,881,883,893	4256042491-000	RES-PR MF 1/4W +-1% 2.49KR-AT-	
R857,877	4050413255-000	RES-CF 1/4W +-5% 1.3KR -AT-	
R859	4050422455-000	RES-CF 1/4W +-5% 220KR -AT-	
R860	4256042152-000	RES-PR MF 1/4W +-1% 21.5KR -AT-	
R862	4050420455-000	RES-CF 1/4W +-5% 200KR -AT-	
R863,899	4256042212-000	RES-PR MF 1/4W +-1% 22.1KR -AT-	
R867	4050415555-000	RES-CF 1/4W +-5% 1.5MR -AT-	
R869,924	4050447255-000	RES-CF 1/4W +-5% 4.7KR -AT-	
R875	4256041502-000	RES-PR MF 1/4W +-1% 15KR -AT-	
R876	4256043741-000	RES-PR MF 1/4W +-1% 3.74KR -AT-	
R884	4050451255-000	RES-CF 1/4W +-5% 5.1KR -AT-	
R885,904	4050427255-000	RES-CF 1/4W +-5% 2.7KR -AT-	
R892,951,980	4256041002-000	RES-PR MF 1/4W +-1% 10KR -AT-	
R894	4256047500-000	RES-PR MF 1/4W +-1% 750R -AT-	
R900	4256046812-000	RES-PR MF 1/4W +-1% 68.1KR -AT-	
R902	4256043000-000	RES-PR MF 1/4W +-1% 300R -AT-	
R905	4050482455-000	RES-CF 1/4W +-5% 820KR -AT-	
R909	4050418355-000	RES-CF 1/4W +-5% 18KR -AT-	
R920	4050482155-000	RES-CF 1/4W +-5% 820R -AT-	
R921,923	4050439355-000	RES-CF 1/4W +-5% 39KR -AT-	
R922	4050410255-000	RES-CF 1/4W +-5% 1KR -AT-	
R981	4256044301-000	RES-PR MF 1/4W +-1% 4.3KR -AT-	
TL951	415943100A-000	IC TL431 REGULATOR TO-92 -RT-	
VR951	5224120220-000	POT 1/2W SFR 2KR	
XTAL1	7150120000-000	X'TAL 12MHZ	

BILL OF MATERIAL (PARTS FOR DAUGHTER)

07/21/'92

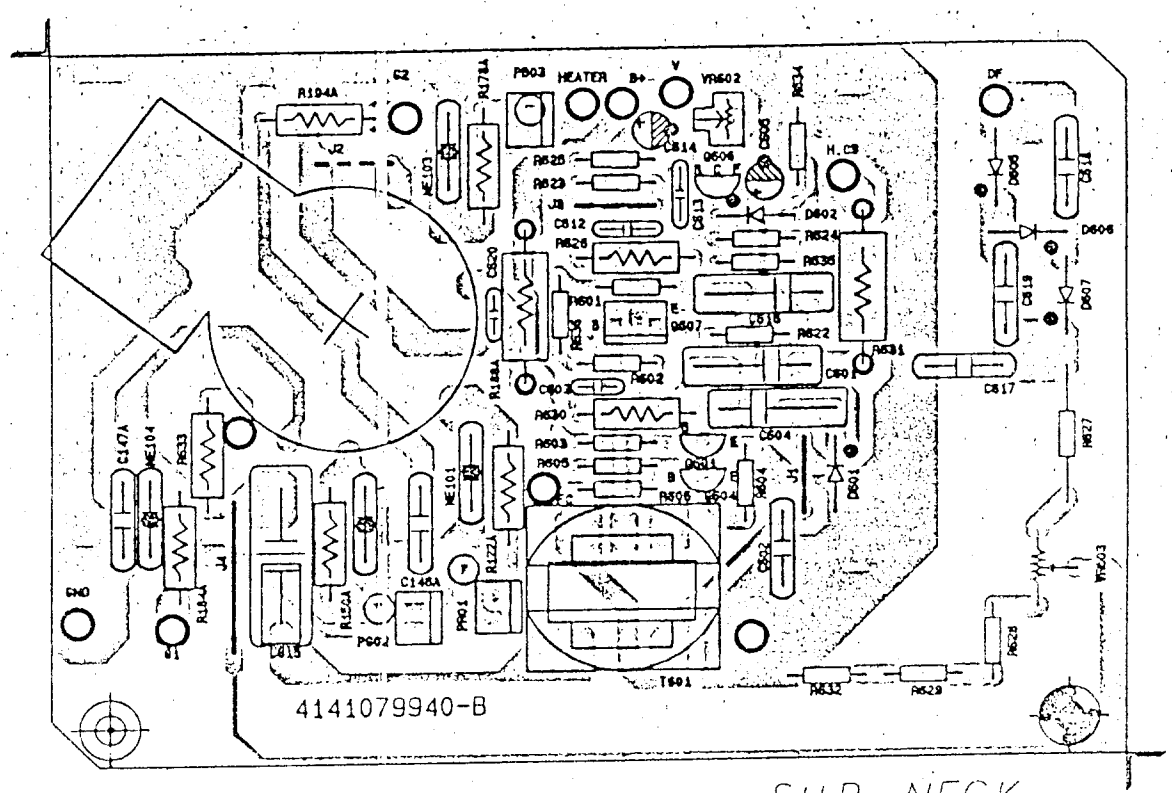
LOCATION	PART NO.	DESCRIPTION	REMARKS
	2009083080-000	PIN CONNECTOR	
CP1,5,11,18	5134104452-000	CAP-CC +80%-20% 0.1UF/50V SC45F -RT-	
CP12	5101331152-000	CAP-CC +-10% 330PF/50V -RT-	
CP13	515A100T25-000	CAP-EC +-20% 10UF/25V -RT-	
CP17	515A479T25-000	CAP-EC +-20% 4.7UF/25V -RT-	
CP2	515A100T16-000	CAP-EC +-20% 10UF/16V -RT-	
CP3	515A470T25-000	CAP-EC +-20% 47UF/25V -RT-	
CP4,6	5104103452-000	CAP-CC +80%-20% 0.01UF/50V -RT-	
CP7	5144102550-000	CAP-P +-5% 1000PF/50V -SF-	
CP8	5128820552-000	CAP-CCLK +-5% 82PF/50V -RT-	
FOR DEAUGHTER-2	414108550D-000	#P.C.B. HV. CONTROL	
FOR RP15	4050420255-000	RES-CF 1/4W +-5% 2KR -AT-	
ICP1	4159352440-000	IC UC3524AN	
ICP2	4159173580-000	IC HA17358	
QP1	4111139060-000	TRS. 2N3906 TO-92 -RT-	
QP2	4111139040-000	TRS. 2N3904 TO-92 -RT-	
QP3,4	4110105610-000	TRS. 2SB561 TO-92 -RT-	
QP5	411020945P-000	TRS. 2SC945P TO-92 -RT-	
RP1	4050443255-000	RES-CF 1/4W +-5% 4.3KR -AT-	
RP10	4050427255-000	RES-CF 1/4W +-5% 2.7KR -AT-	
RP13	4050451155-000	RES-CF 1/4W +-5% 510R -AT-	
RP14	4050420255-000	RES-CF 1/4W +-5% 2KR -AT-	
RP18	4256042501-000	RES-PR MF 1/4W +-1% 2.5KR -AT-	
RP2	4050443455-000	RES-CF 1/4W +-5% 430KR -AT-	
RP21	4050451255-000	RES-CF 1/4W +-5% 5.1KR -AT-	
RP25	4256041202-000	RES-PR MF 1/4W +-1% 12KR -AT-	
RP3	4050415255-000	RES-CF 1/4W +-5% 1.5KR -AT-	
RP4	4050430255-000	RES-CF 1/4W +-5% 3KR -AT-	
RP7,9,11,12,19	4050410355-000	RES-CF 1/4W +-5% 10KR -AT-	
VRP1	5225110214-000	POT 1KR +-20%	
ZDP2	4120501802-000	DIODE ZENER HZ18-2 V -AT-	
ZP1	41205009C1-000	DIODE ZENER HZ9C1 -AT-	



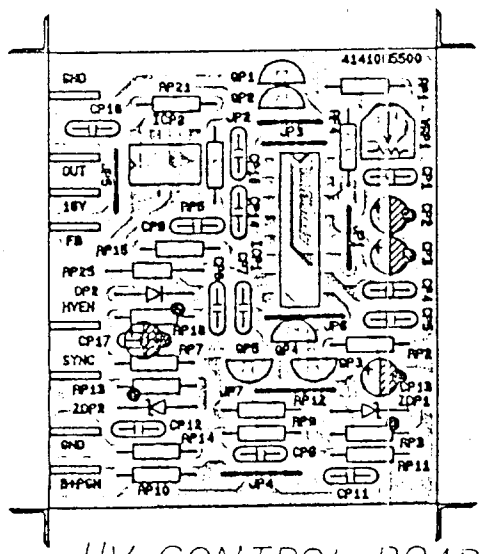


Assembly	: USER CONTROL PCB 1 OF 1
Drawing Date	: 12 APRIL 1990
Model	: TAXAN MV 875+LR

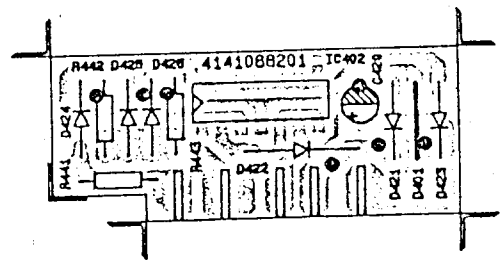
PCB LAYOUT DRAWING



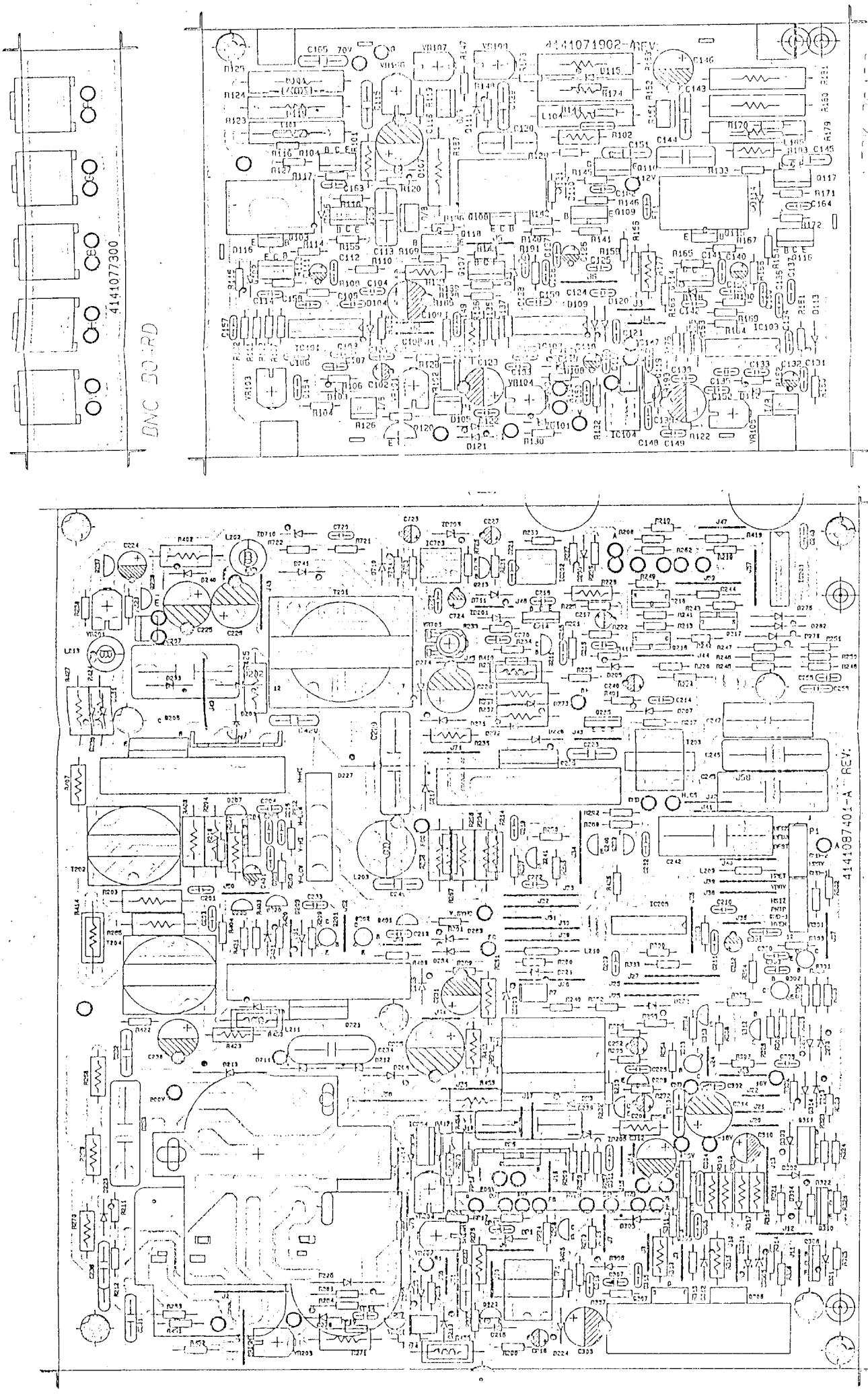
SUB NECK BOARD

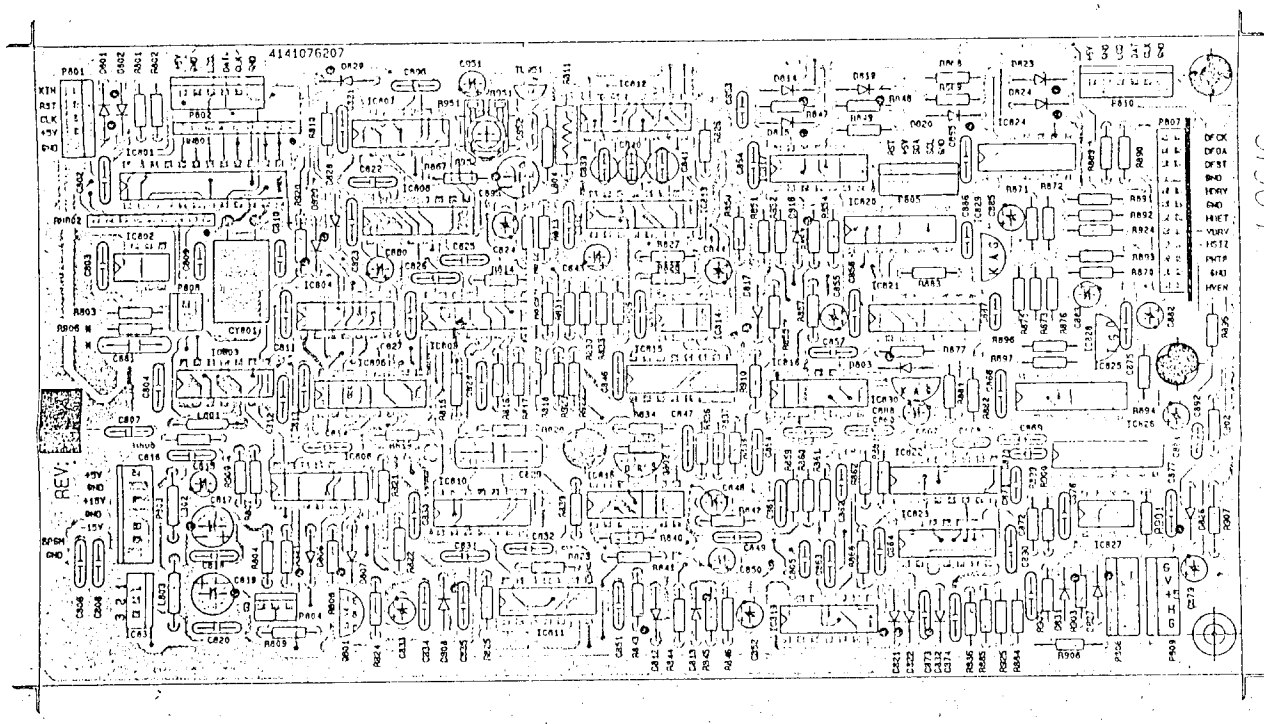


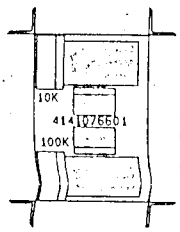
HV CONTROL BOARD

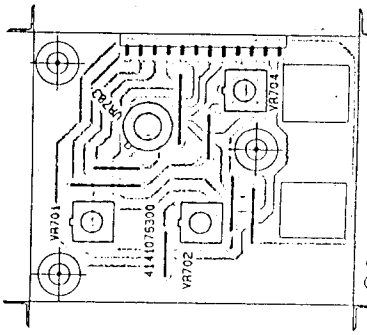


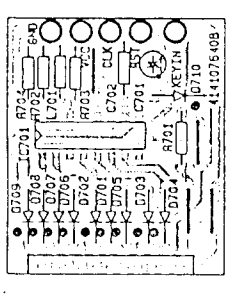
DAUGHTER BOARD

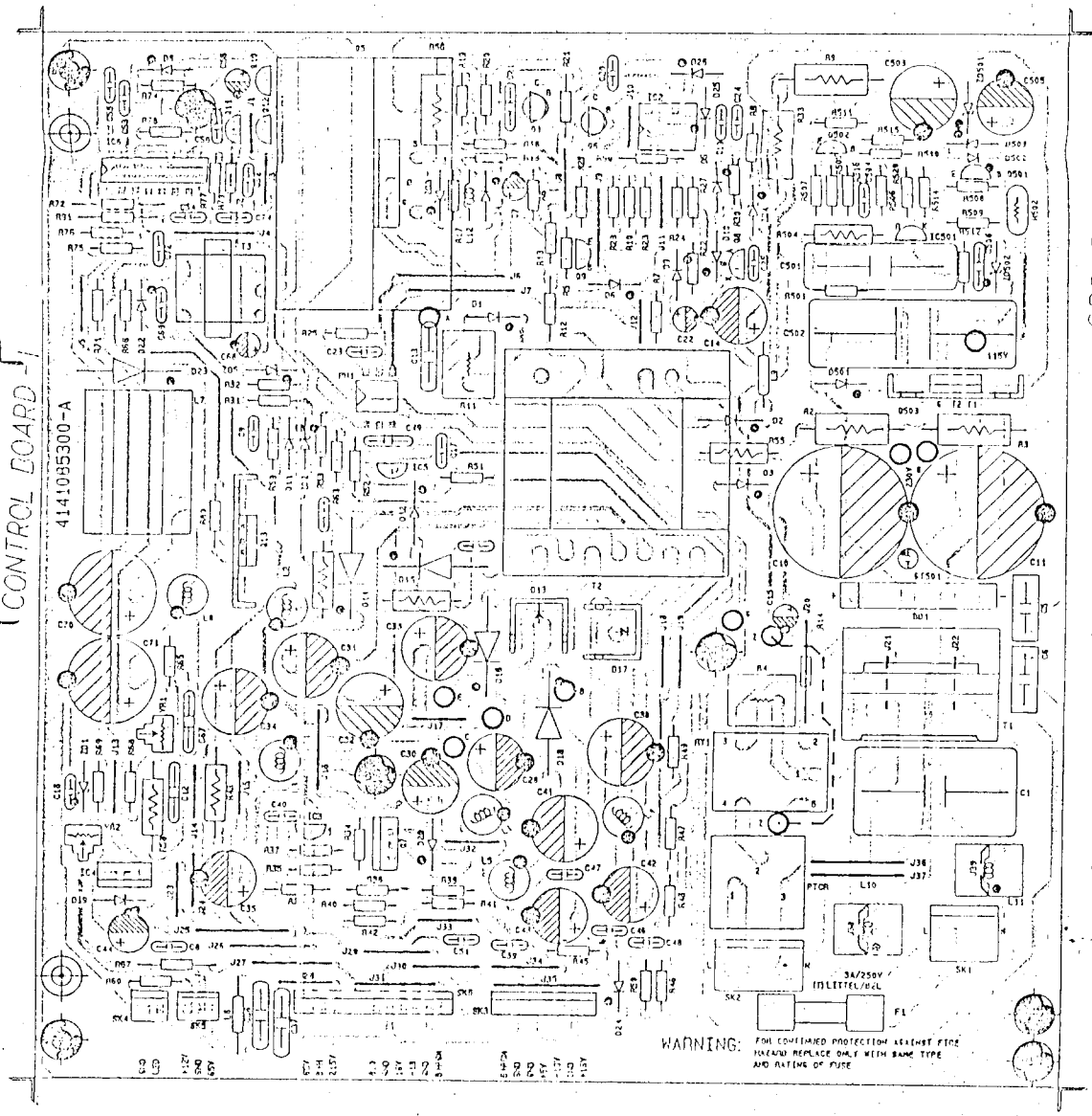

4141077300
BNC BOARD
4141071902-REV:
REV BOARD
4141087401-A REV:
REF BOARD

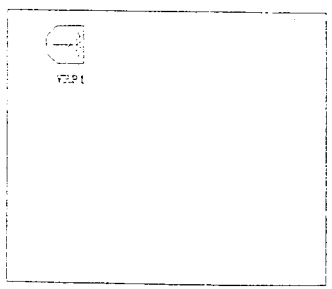

4141076207
LOGIC BOARD
REV:

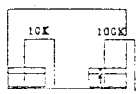

10K
4141076601
100K
VR BOARD

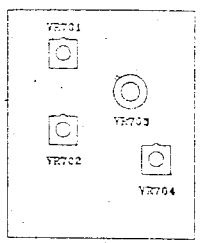

VR704
VR701
4141075300
VR702
CONTROL BOARD-I

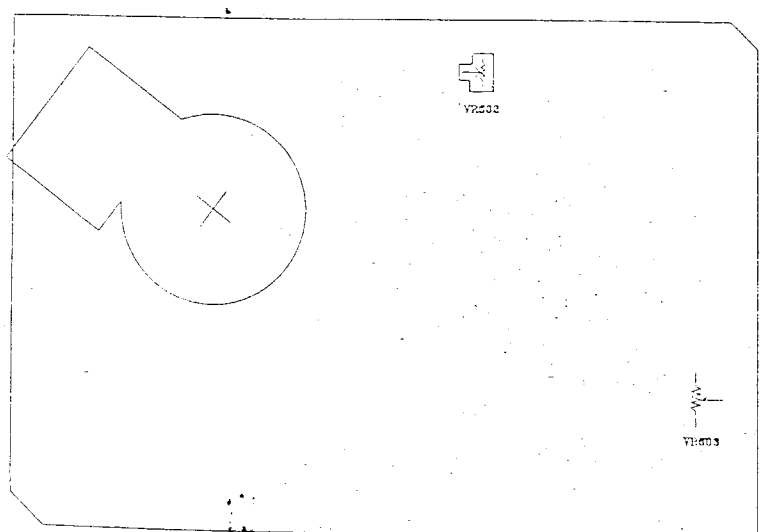

CLK
RST
KEYIN
4141076408
CONTROL BOARD-II

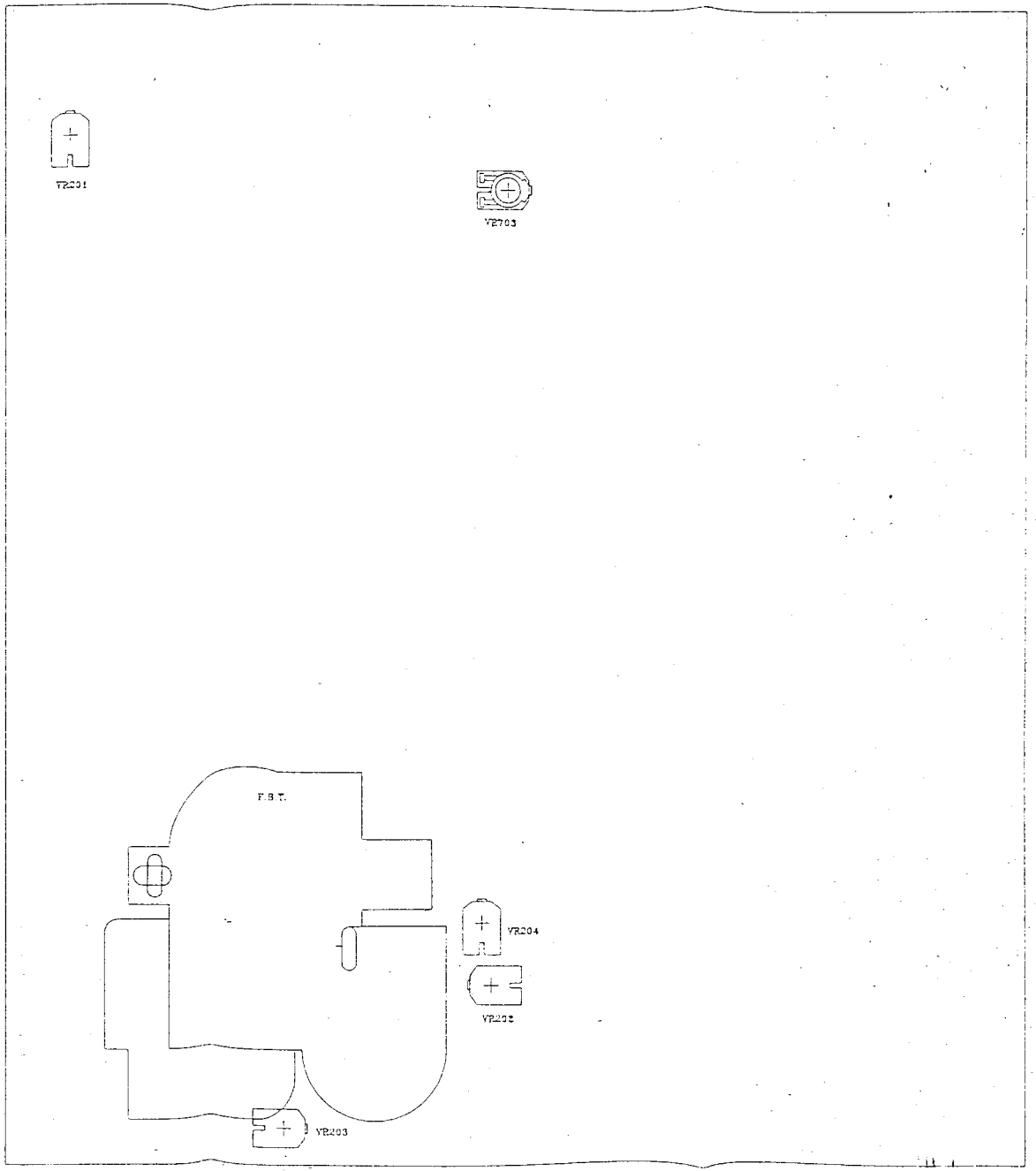

4141085300-A
SPS BOARD
WARNING:
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD REPLACE ONLY WITH SAME TYPE AND RATING OF FUSE

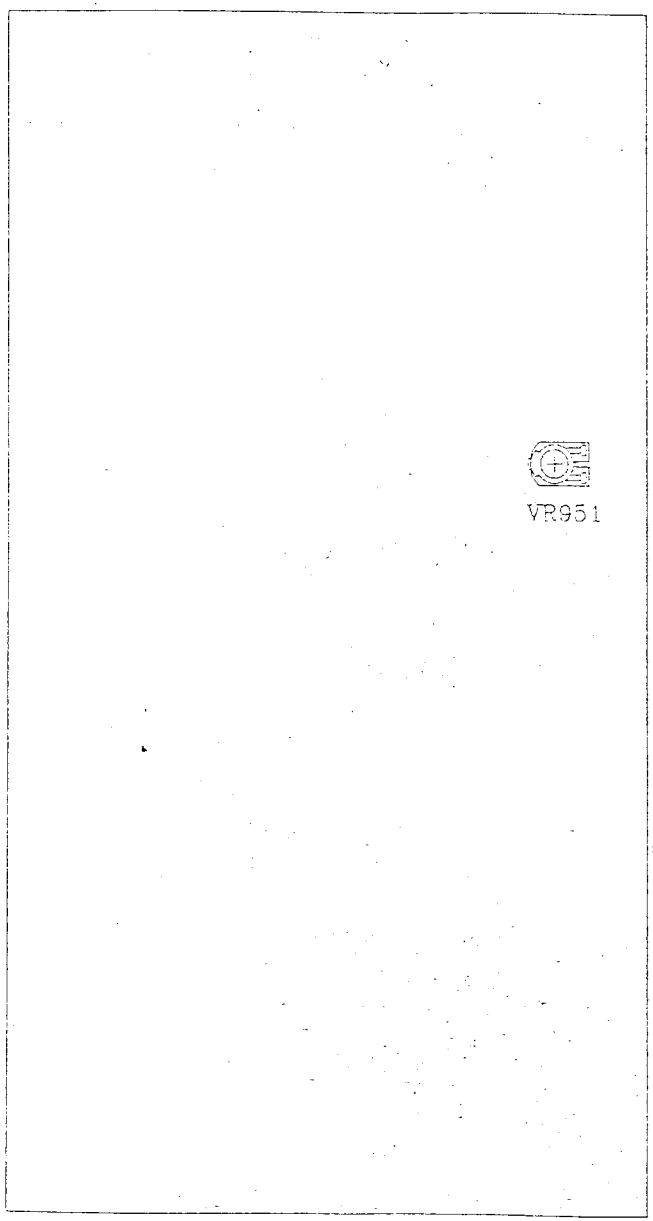


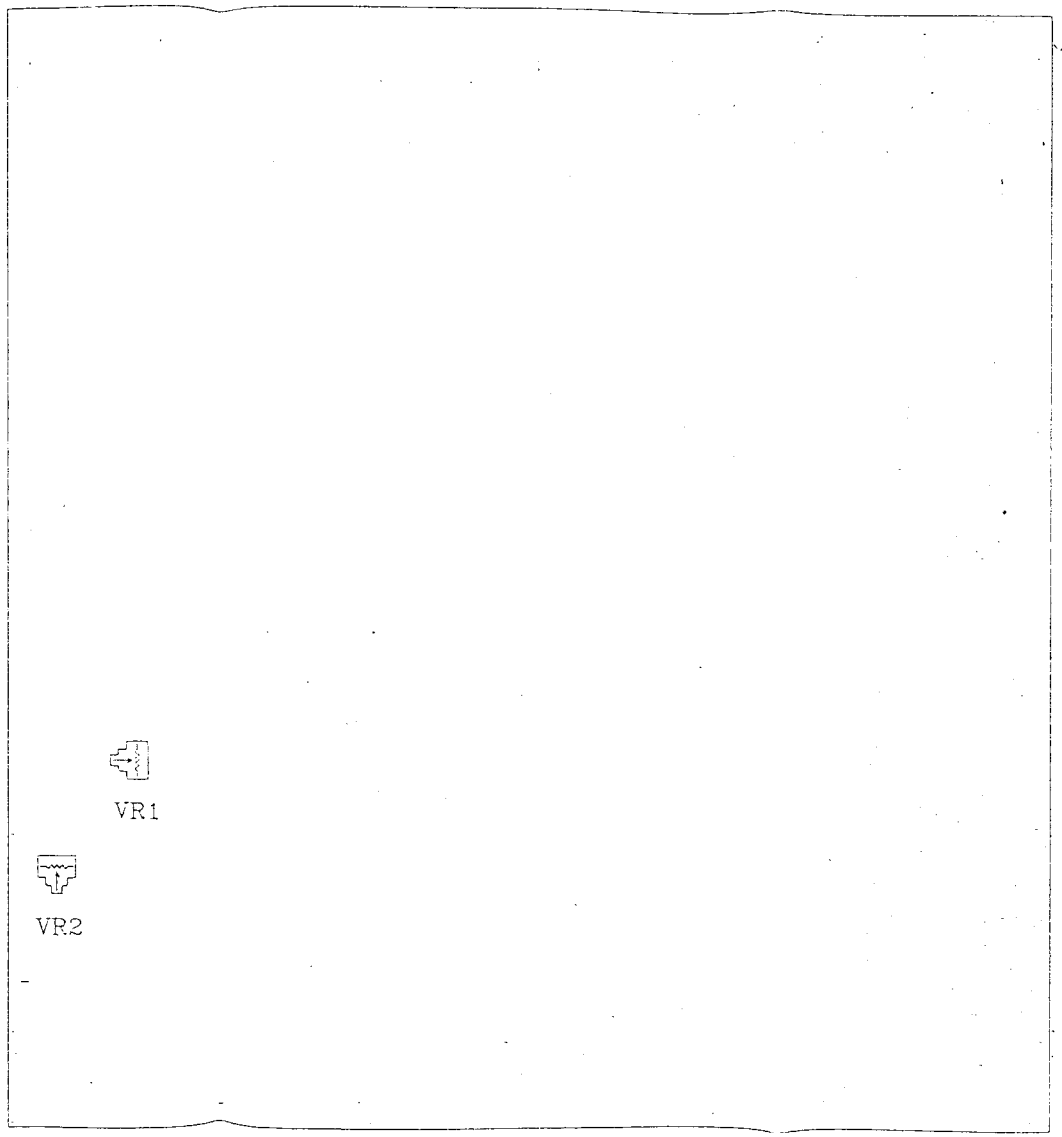

10K
100K


VR701
VR703
VR702
VR704

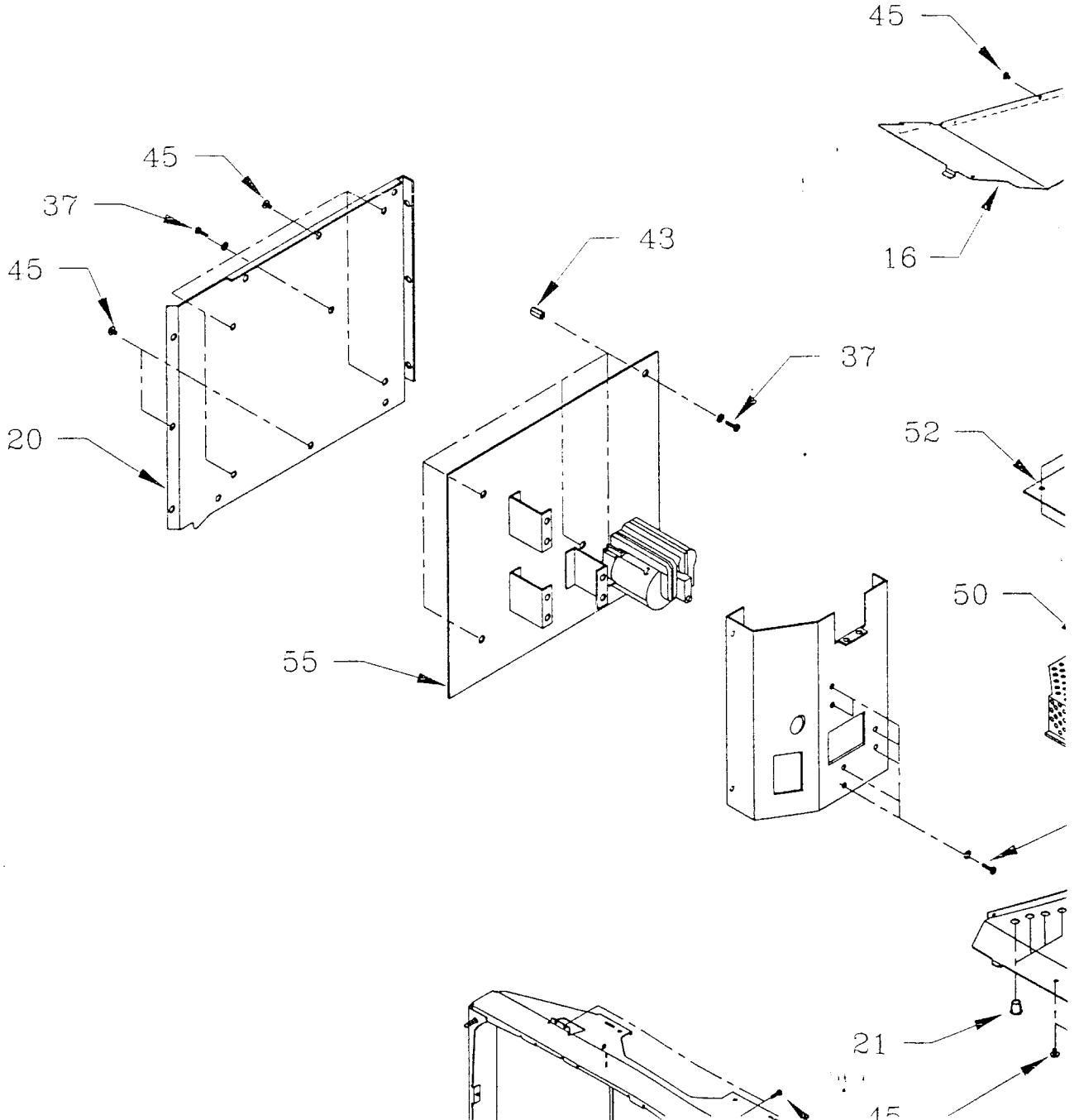

VR502
VR603


VR201
VR703
F.B.T.
VR204
VR202
VR203

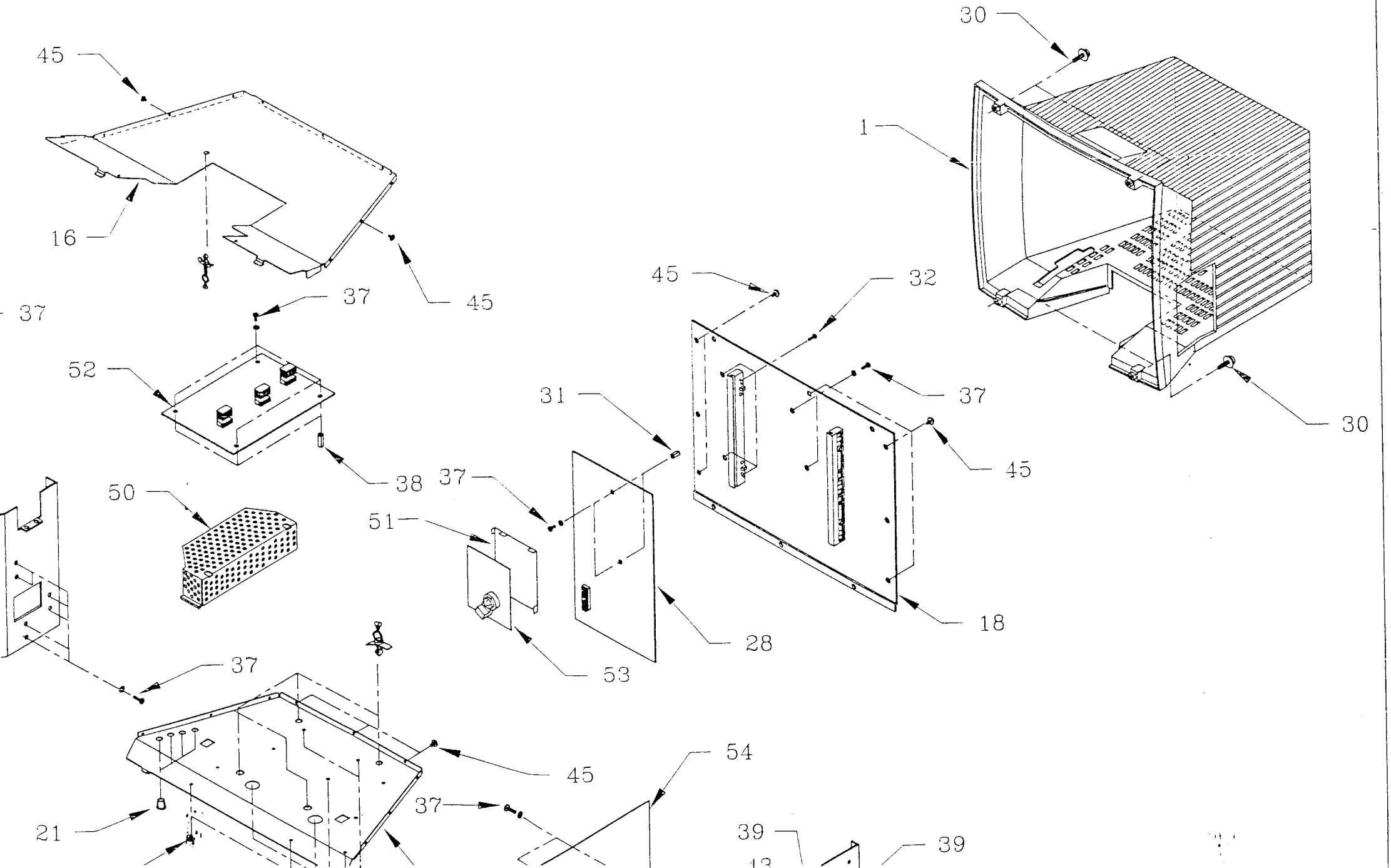

VR951

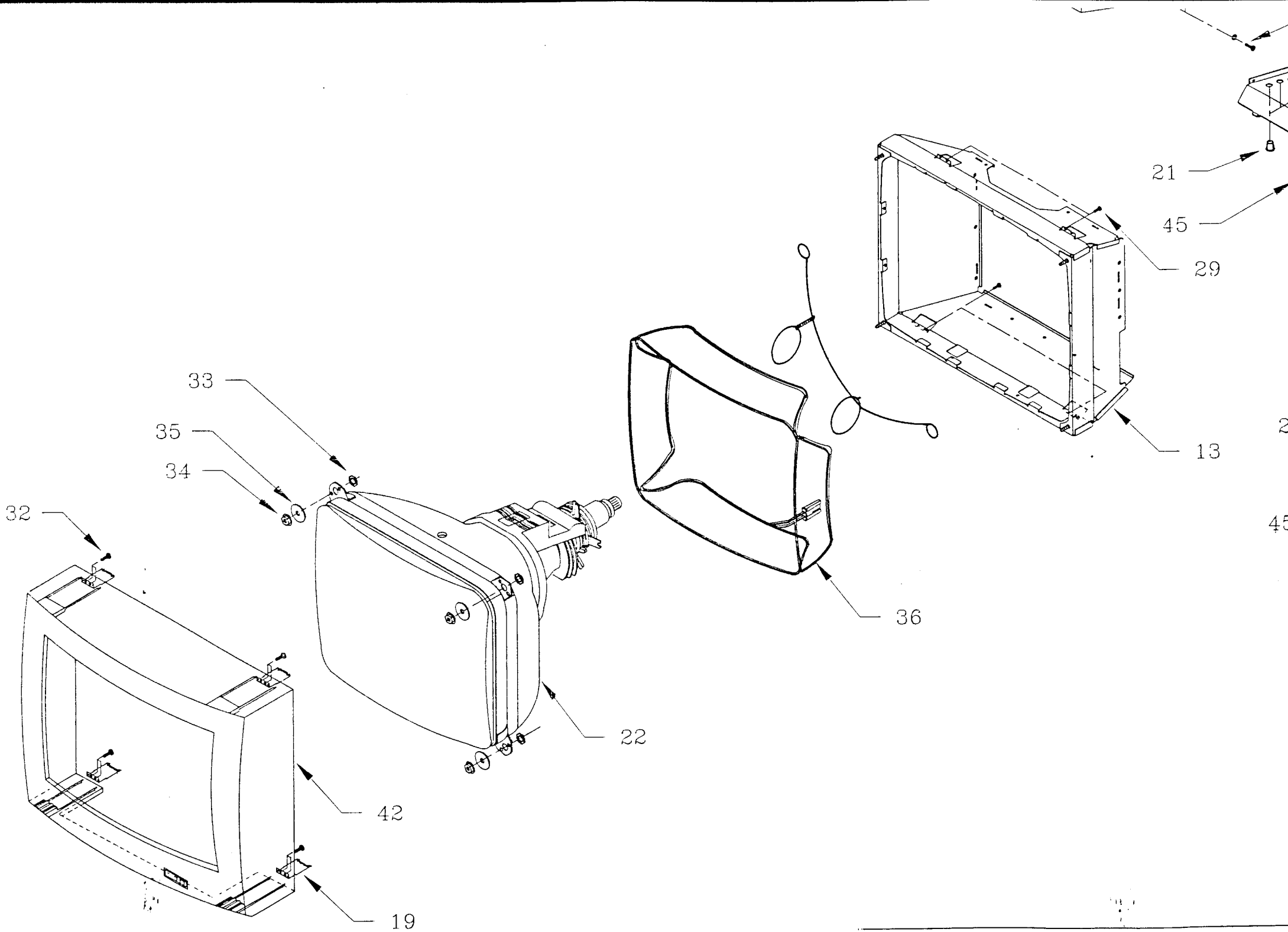

VR1
VR2

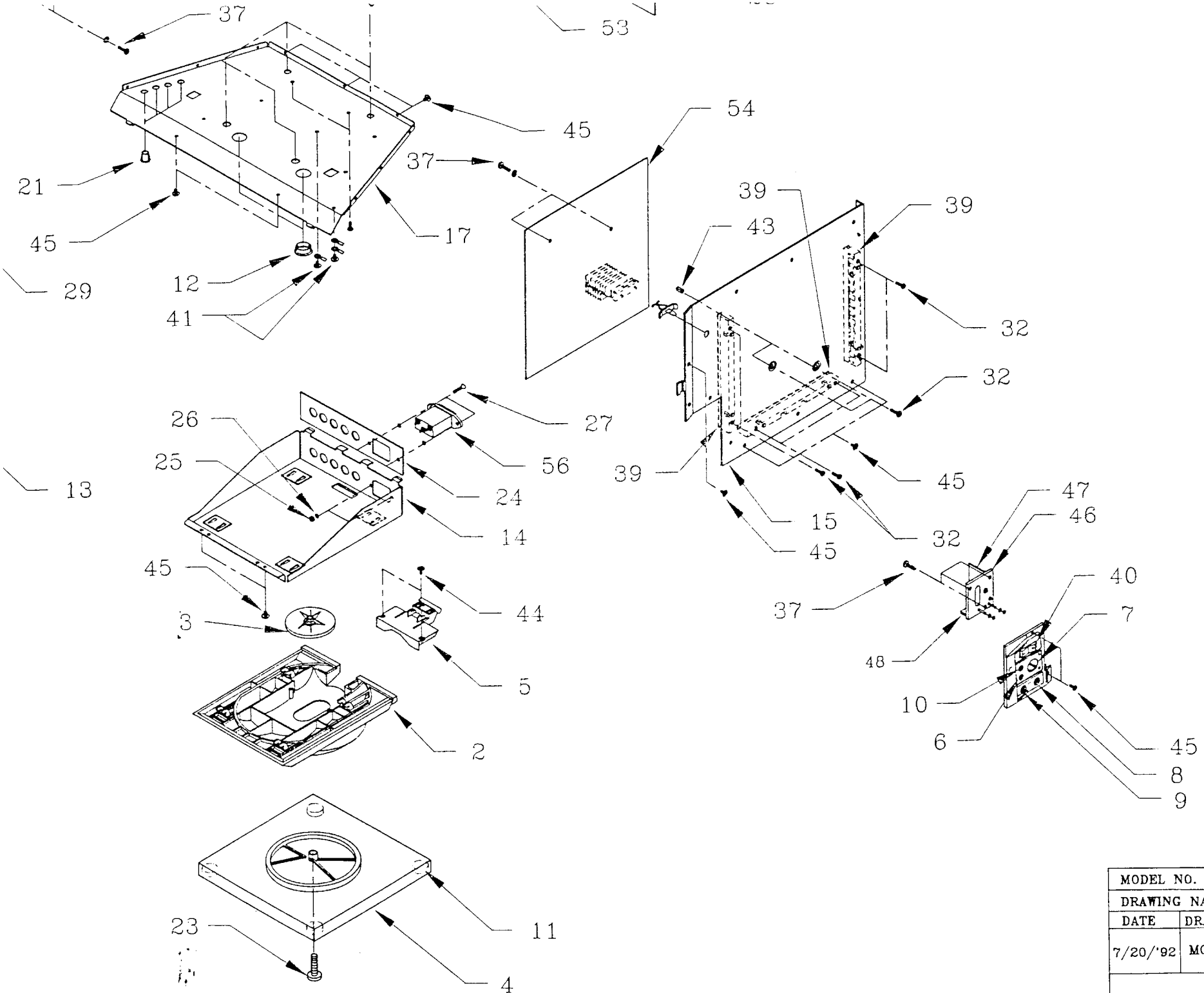
MECH EXPLODED VI



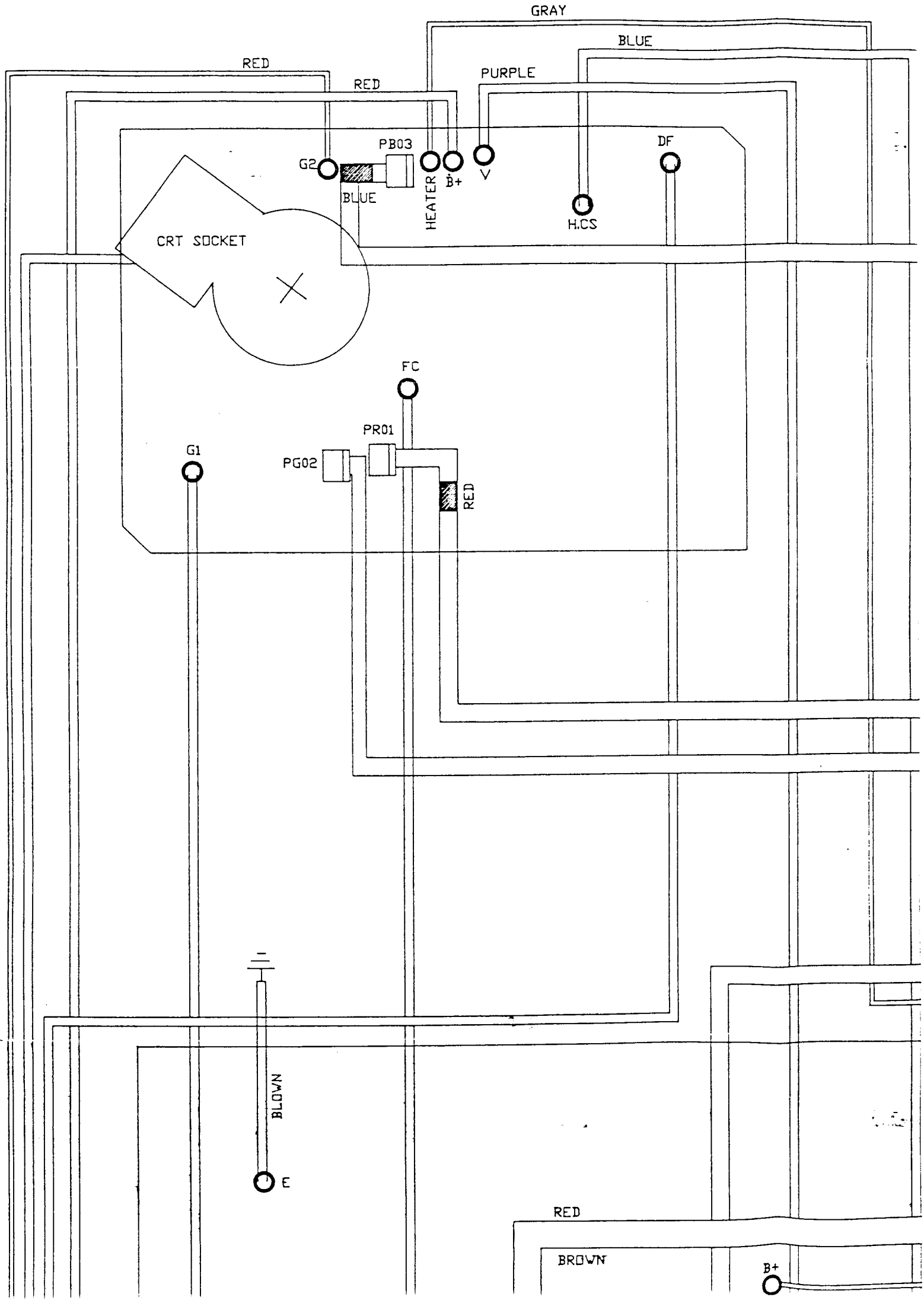
PLODED VIEW

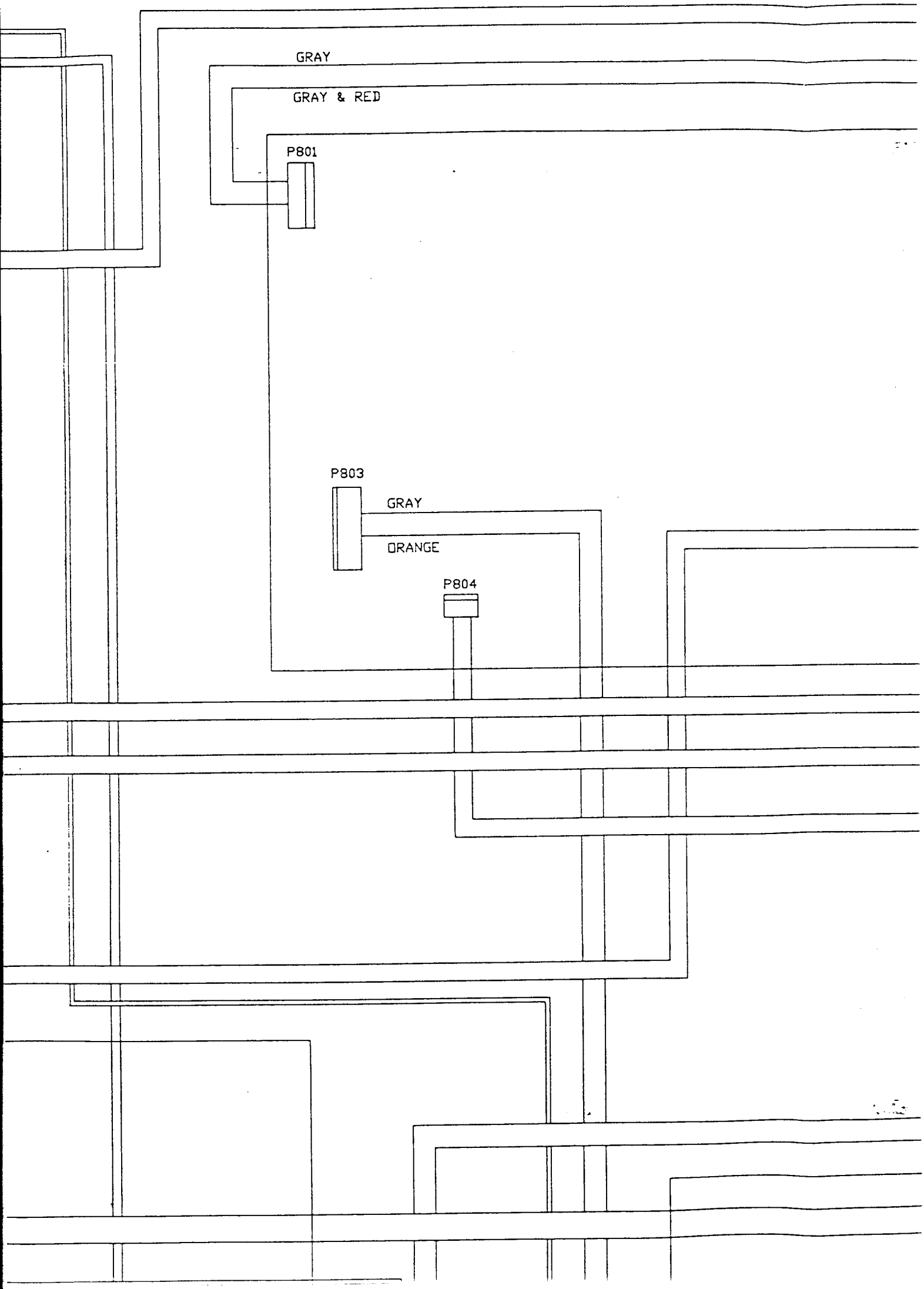

45
16
45
37
37
52
38
50
37
51
53
31
37
28
45
32
37
45
18
30
1
30
37
21
45
37
54
39
39

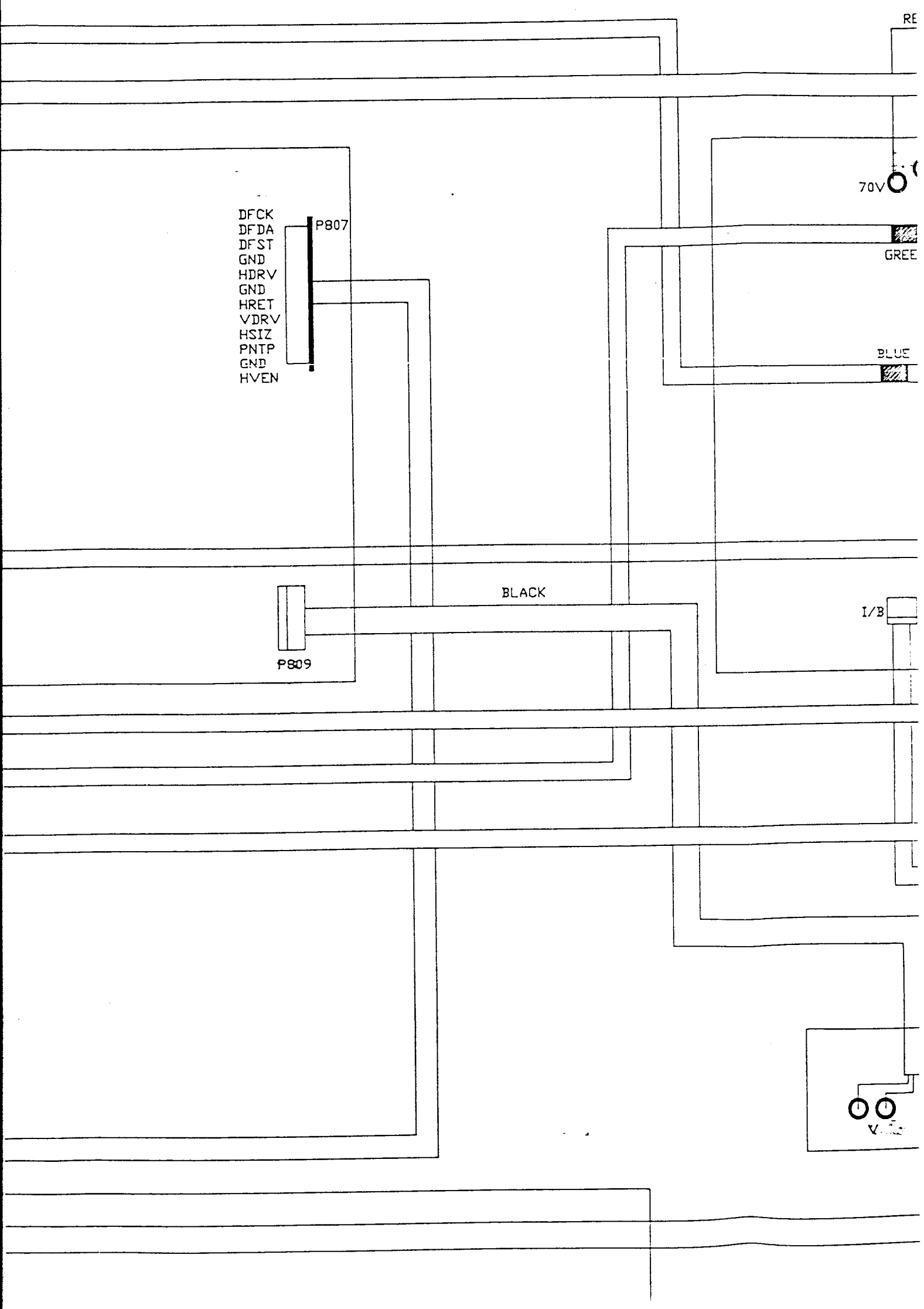

21
45
29
13
33
35
34
32
36
22
42
19

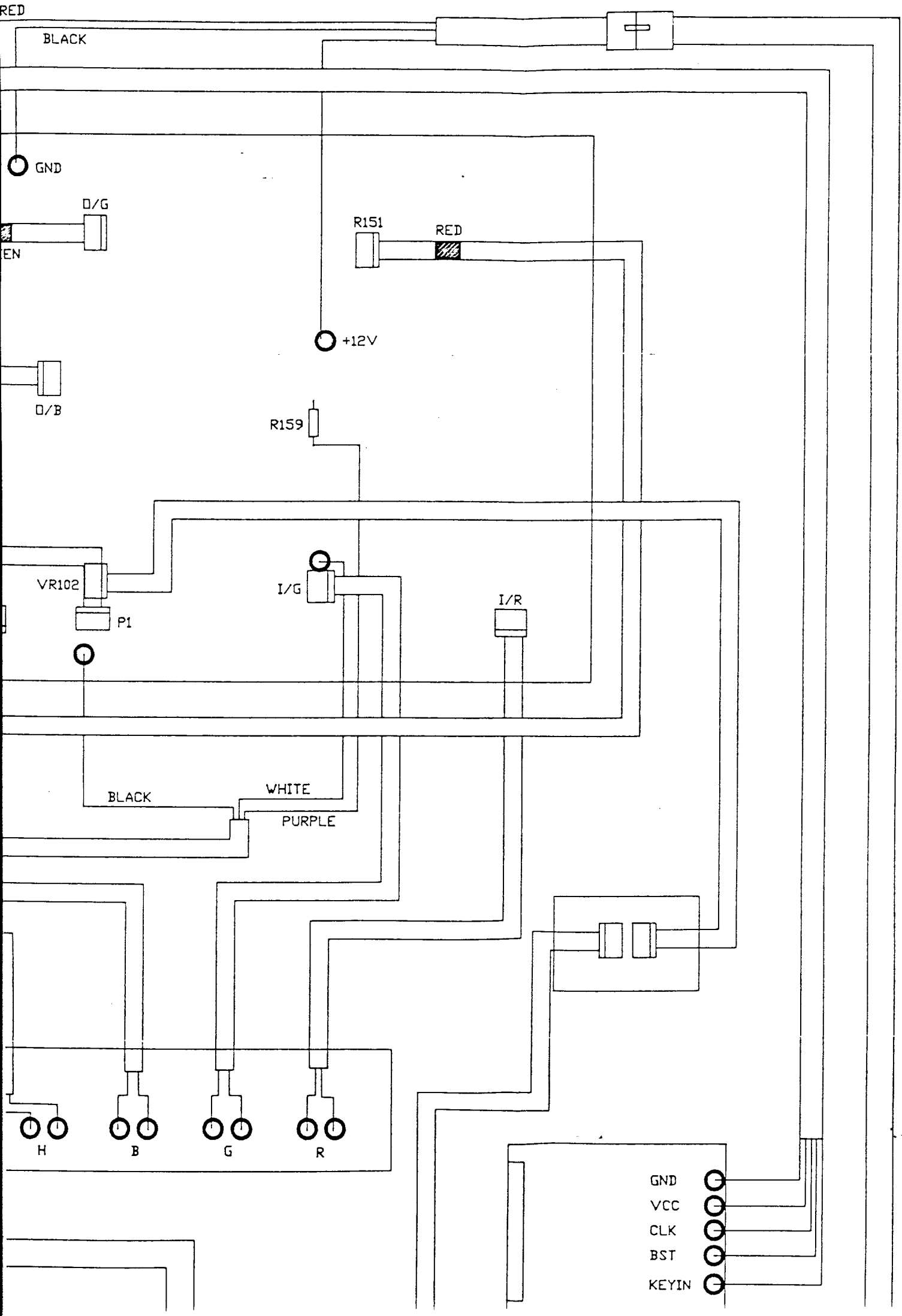


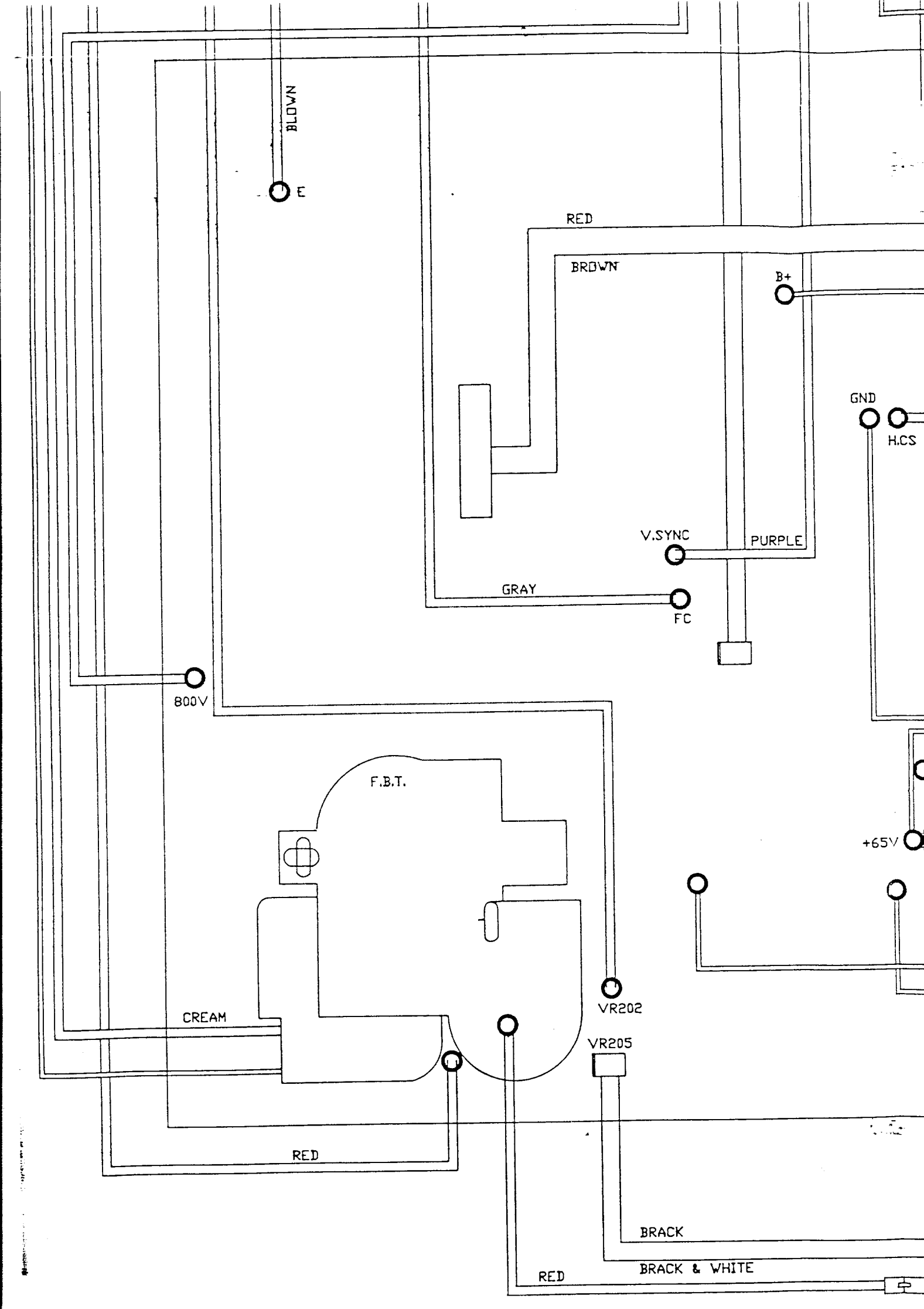
MODEL NO.		K17MV875+LR		
DRAWING NAME		MECH EXPLODED VIEW		
DATE	DRAWN	CHECK		APPROVED
7/20/'92	MOON	Wang	B.L. Lo	Day

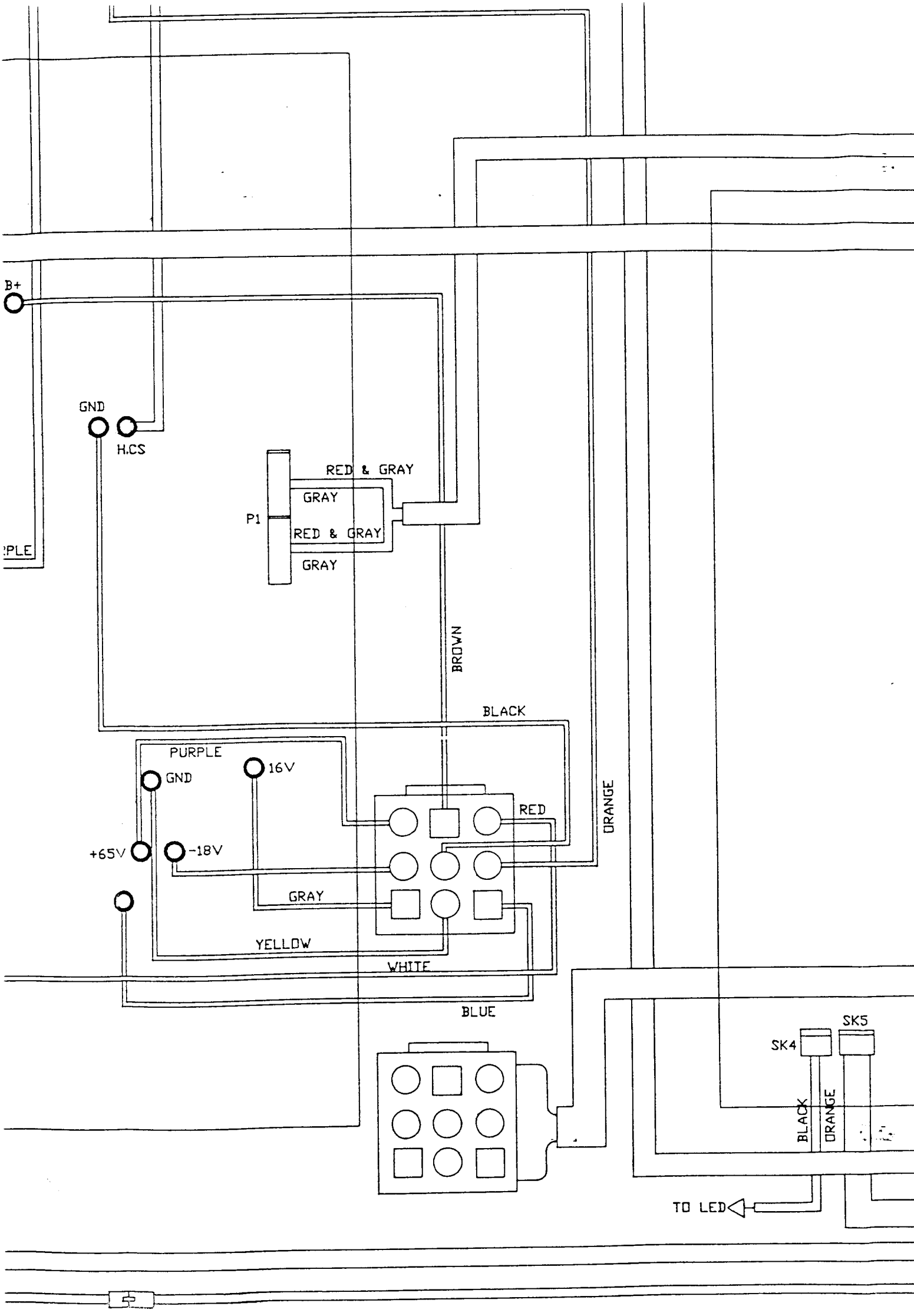

GRAY
BLUE
RED
RED
PURPLE
PB03
G2
BLUE
HEATER
B+
V
H.CS
DF
CRT SOCKET
FC
PR01
G1
PG02
RED
BLOWN
E
RED
BROWN
B+

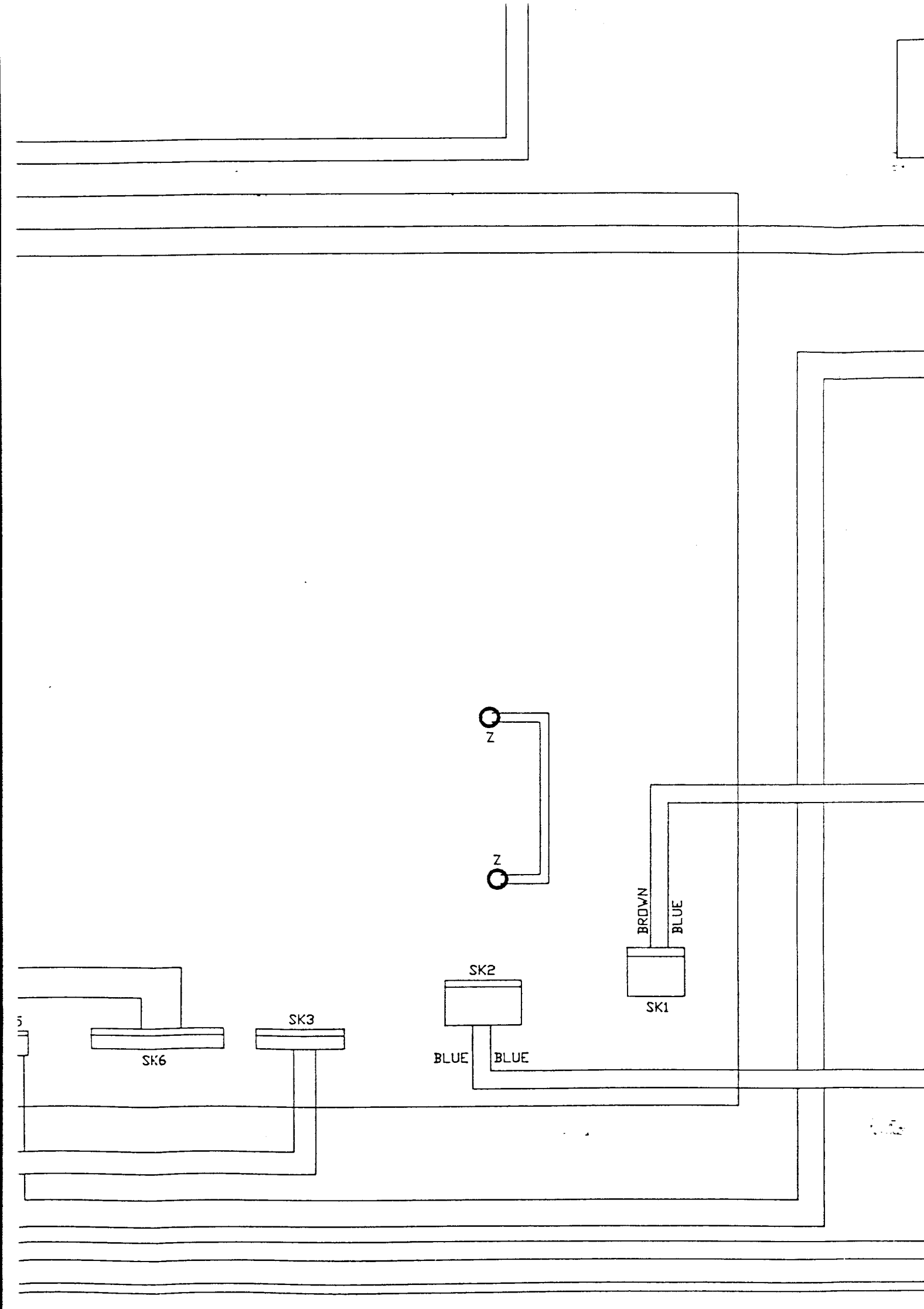

GRAY
GRAY & RED
P801
P803
GRAY
ORANGE
P804

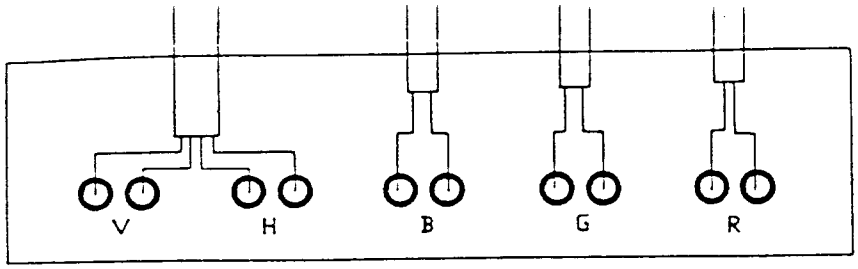

RE
70V
DFCK
DFDA
DFST
GND
HDRV
GND
HRET
VDRV
HSIZ
PNTP
GND
HVEN
P807
GREE
BLUE
BLACK
I/B
P809


RED
BLACK
GND
D/G
EN
R151
RED
+12V
D/B
R159
VR102
P1
I/G
I/R
BLACK
WHITE
PURPLE
H
B
G
R
GND
VCC
CLK
BST
KEYIN


BLOWN
E
RED
BROWN
B+
GND
H.CS
V.SYNC
PURPLE
GRAY
FC
800V
F.B.T.
+65V
VR202
CREAM
VR205
RED
BRACK
BRACK & WHITE
RED

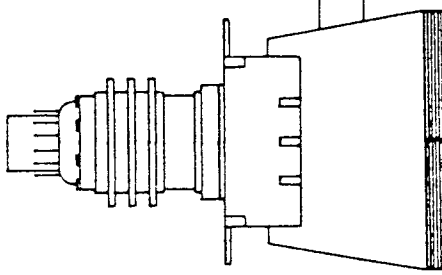

B+
GND
H.CS
P1
RED & GRAY
GRAY
RED & GRAY
GRAY
BROWN
BLACK
PURPLE
GND
16V
+65V
-18V
RED
ORANGE
GRAY
YELLOW
WHITE
BLUE
SK4
SK5
BLACK
ORANGE
TO LED


Z
Z
BROWN
BLUE
SK1
SK2
BLUE
BLUE
SK3
SK6



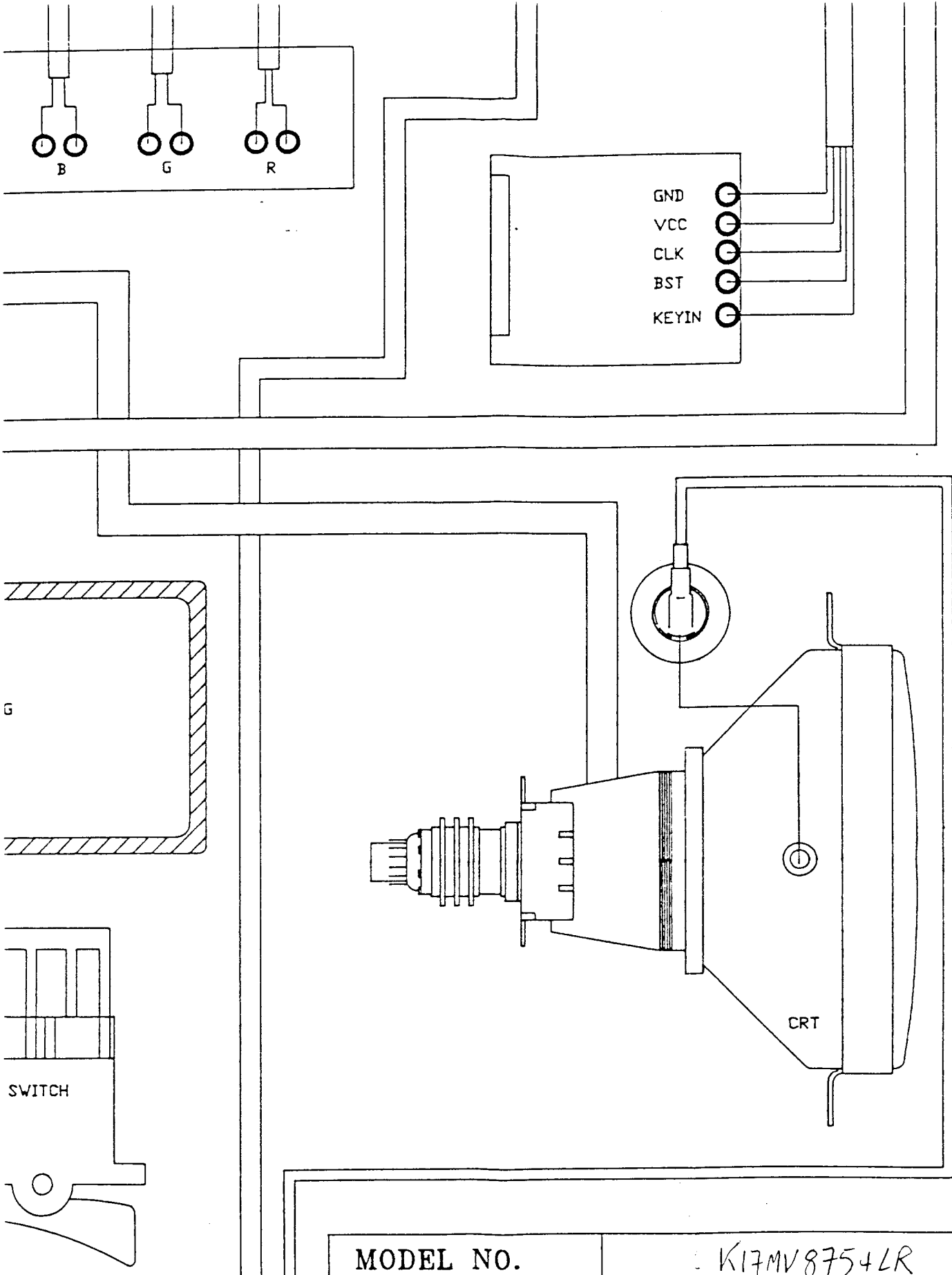
GN
VC
CL
BS
KE

DEGASSING



SWITCH

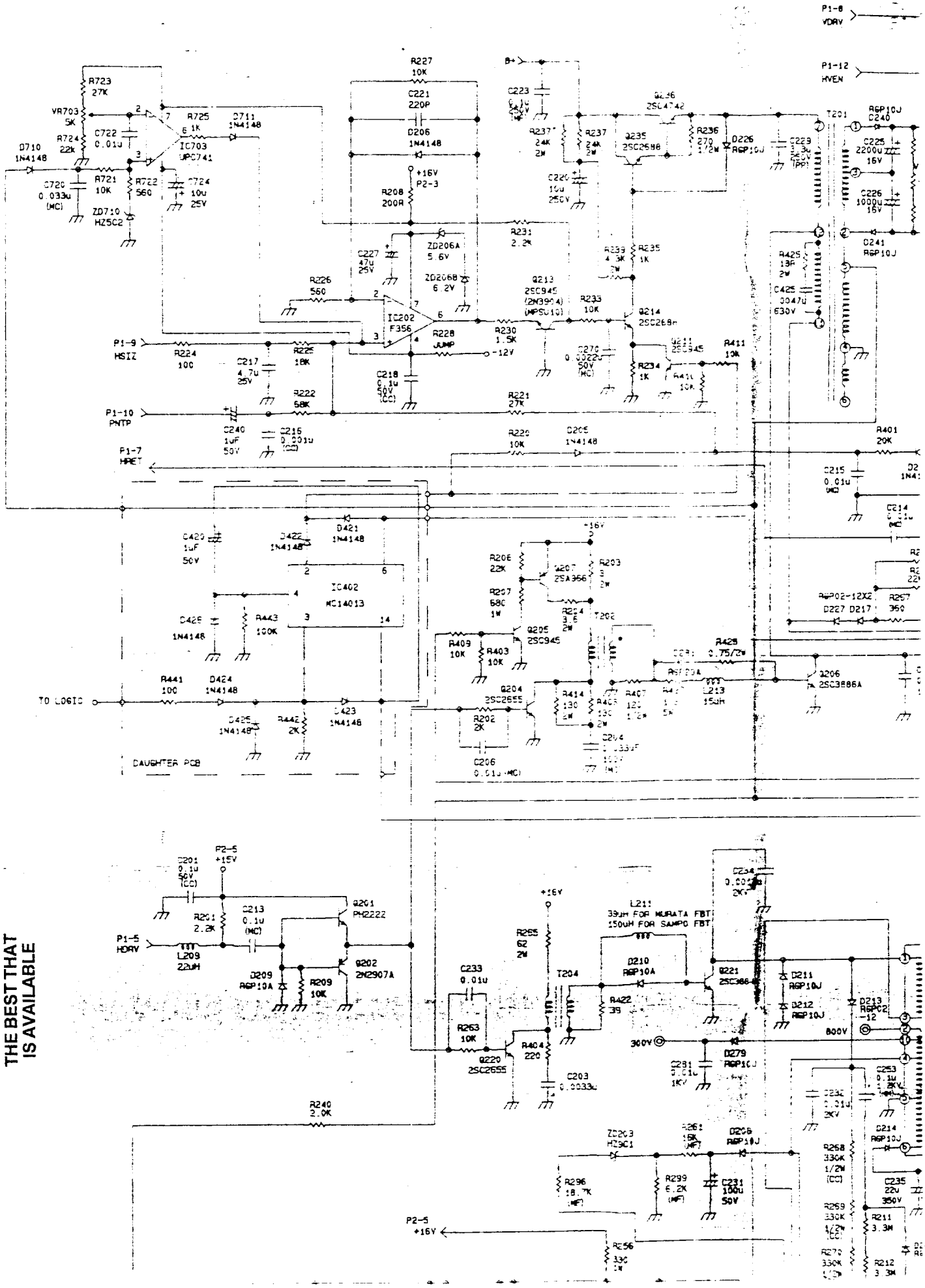
MODEL NO.		
DRAWING NAME		PCB
DATE	DRAWN	C
1992 08/04	MOON	



MODEL NO.		K17MV8754LR		
DRAWING NAME		PCB WIRE CONNECTION		
DATE	DRAWN	CHECK		APPORVED
1992 08/04	MOON		B.L.Lu	

DEF PCB

THE QUALITY OF THIS PAGE IS THE BEST THAT IS AVAILABLE



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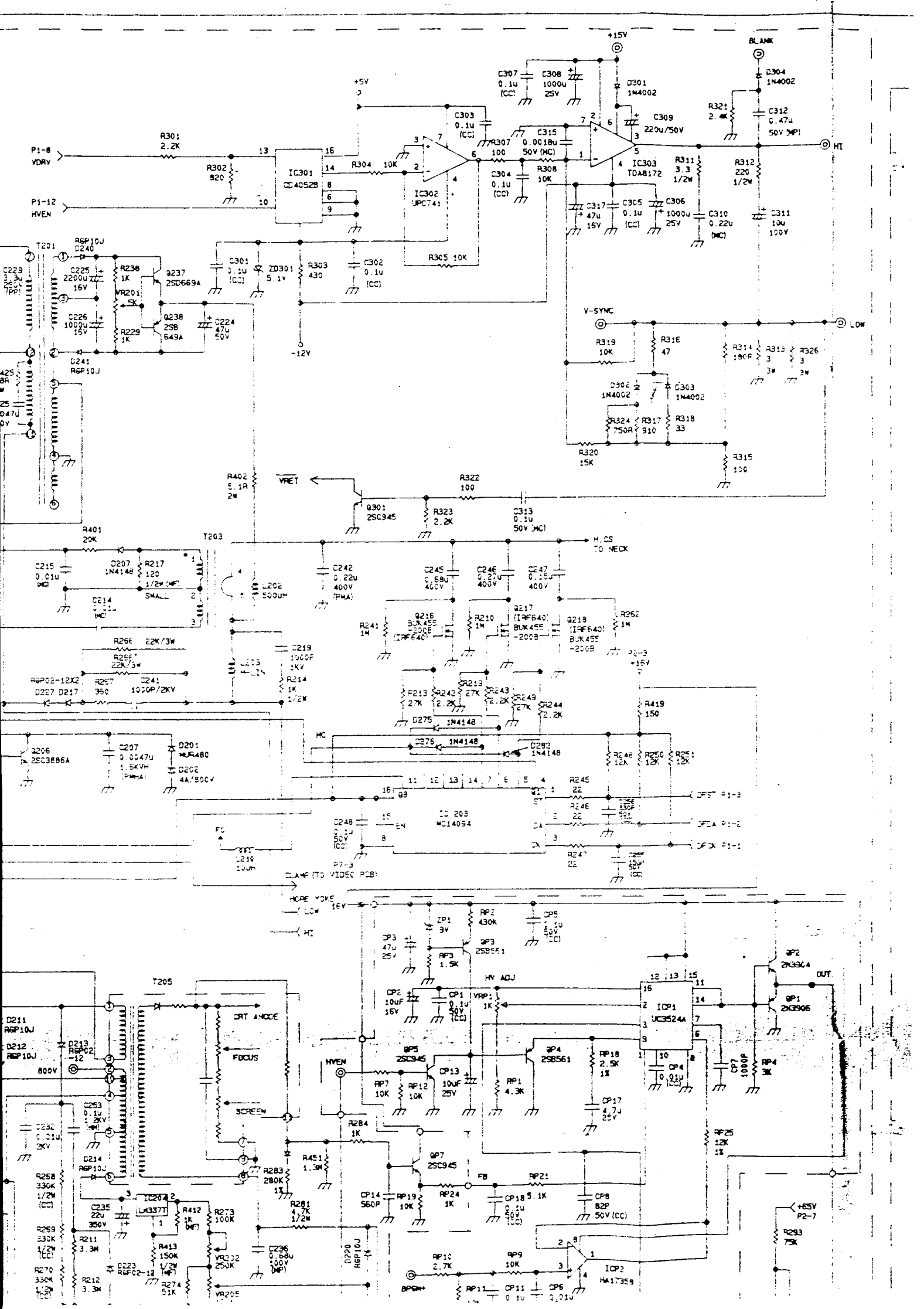
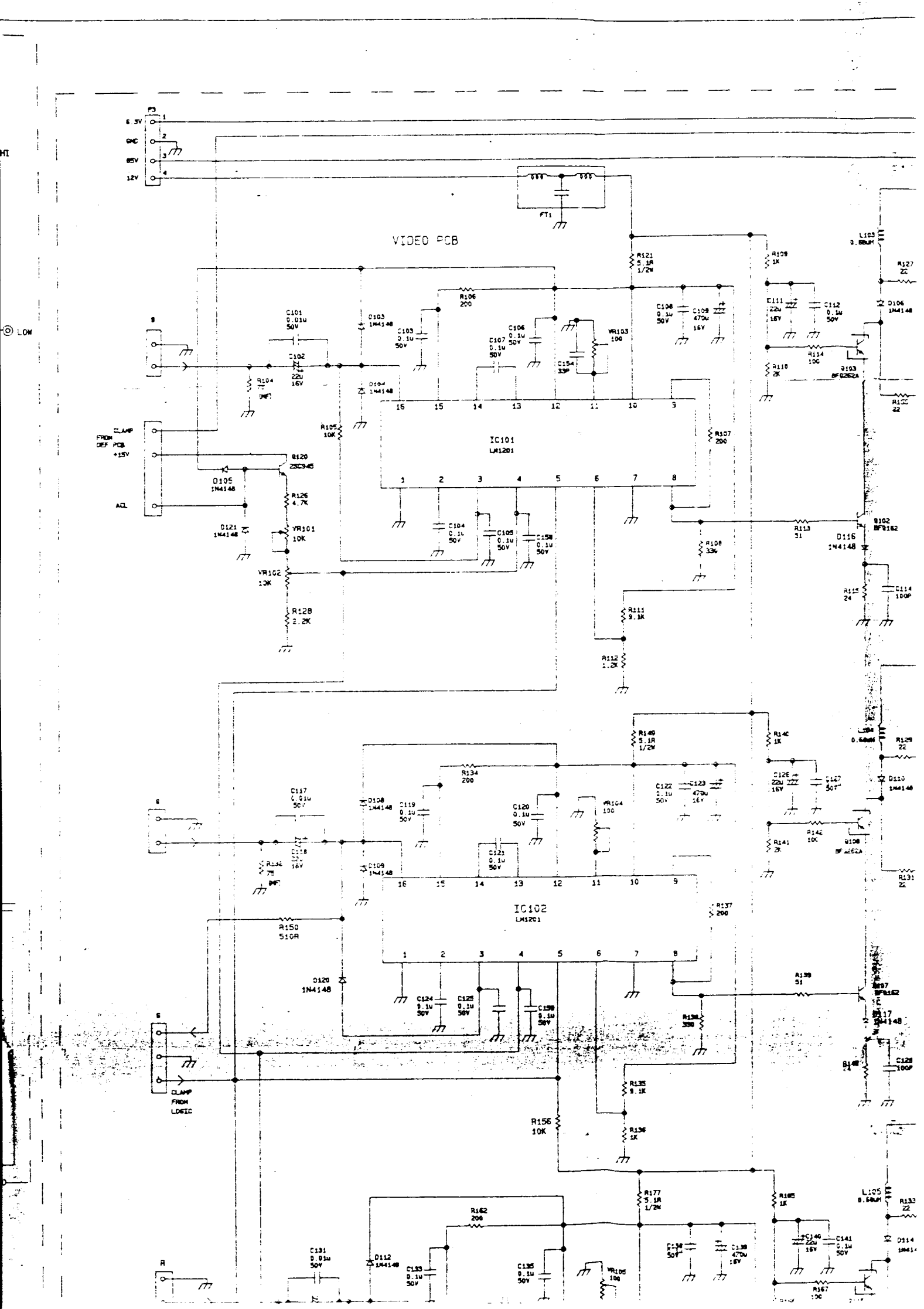
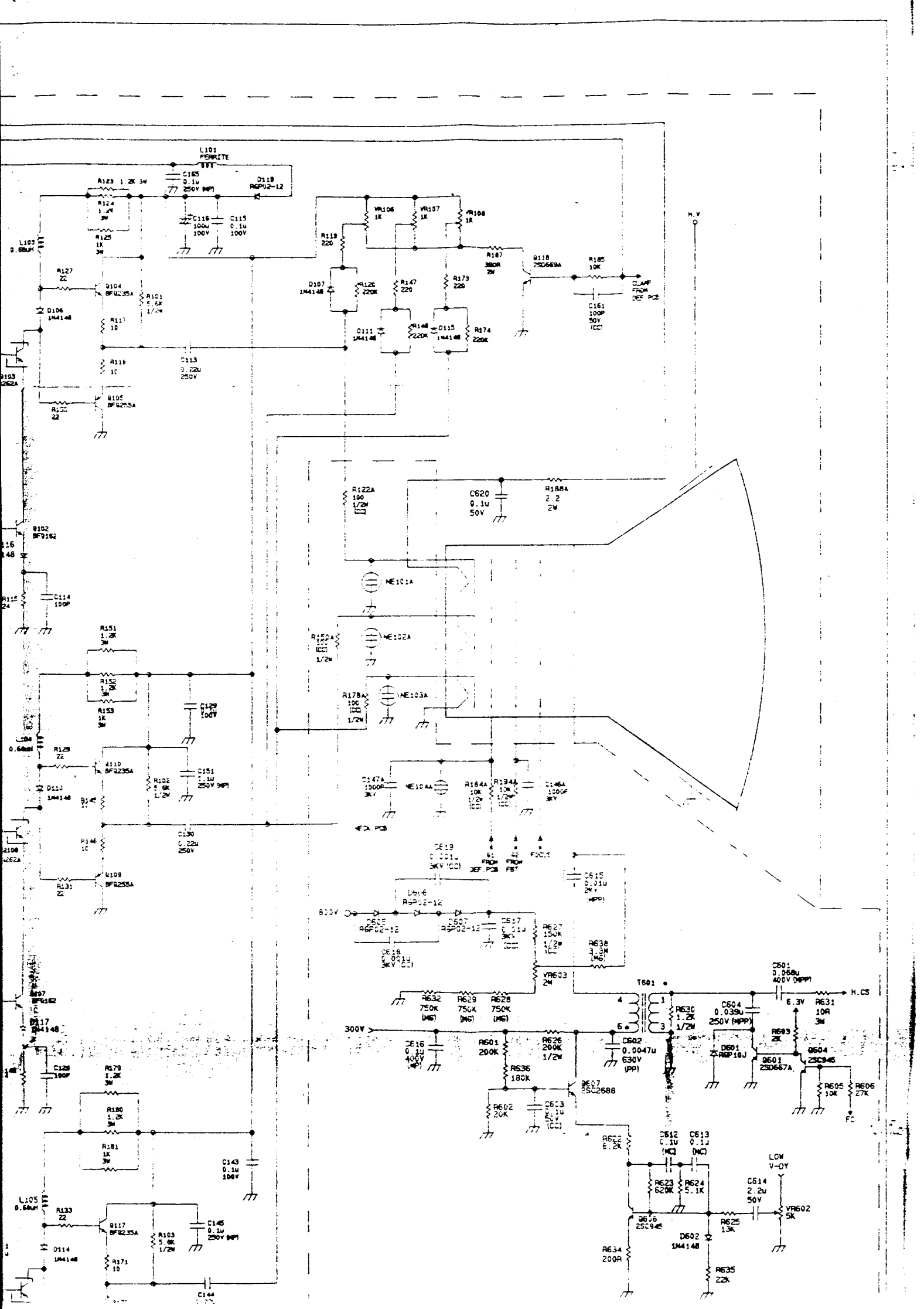

+15V
BLANK
+5V
P1-8
VDRV
P1-12
HVEN
IC301
CD40528
IC302
UPC741
IC303
TDA8172
HI
LOW
V-SYNC
VRET
-12V
H.DS
TO NECK
T201
T203
T205
HV ADJ
DRT ANODE
FOCUS
SCREEN
HVEN
CLAMP (TO VIDEO PCB)
IC201
MC14094
ICP1
UC3524A
ICP2
HA17359
+65V
P2-7


VIDEO PCB
IC101
LM1201
IC102
LM1201
CLAMP FROM DEF PCB +15V
CLAMP FROM LOGIC
ACL
6.3V
GND
85V
12V



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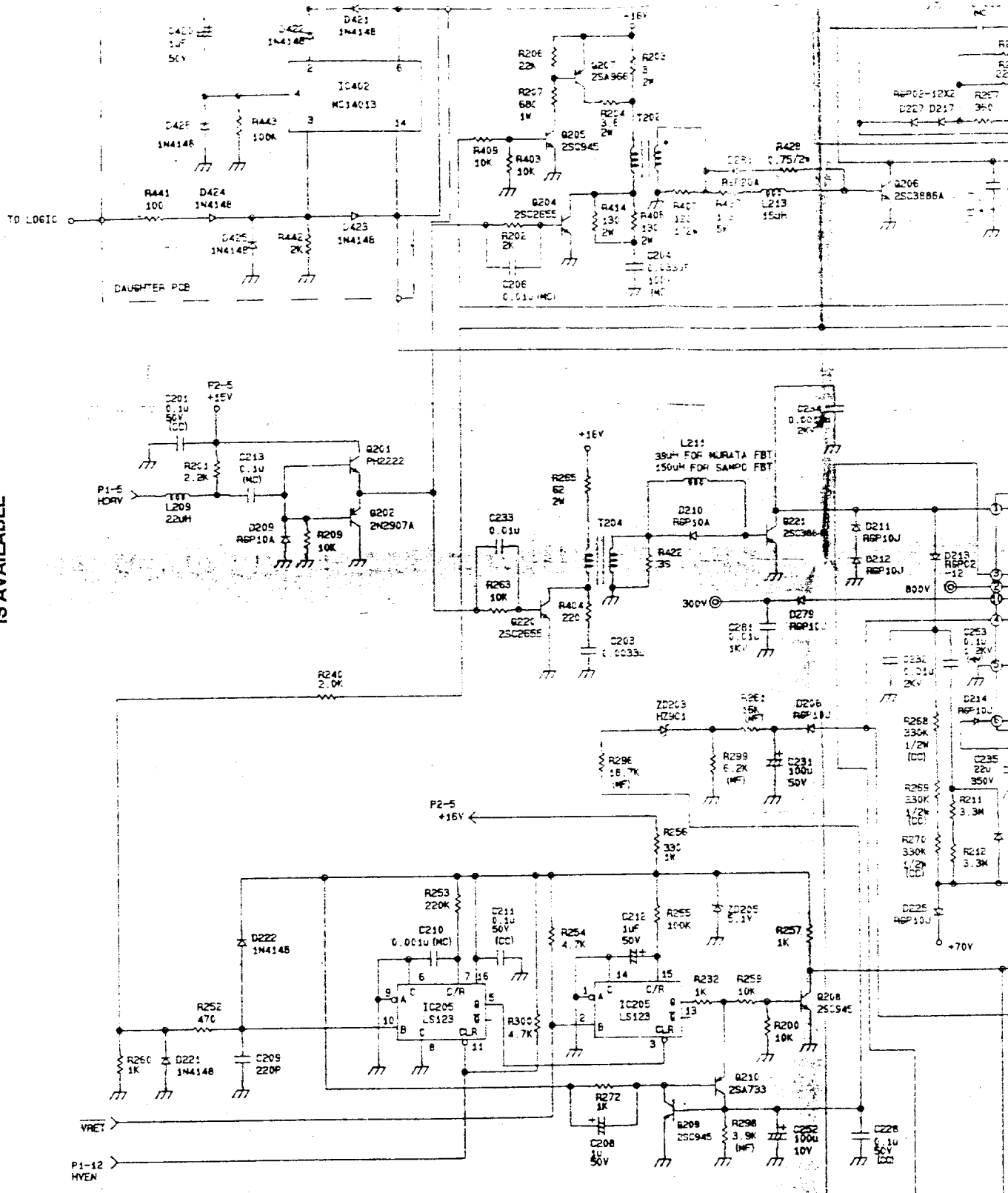
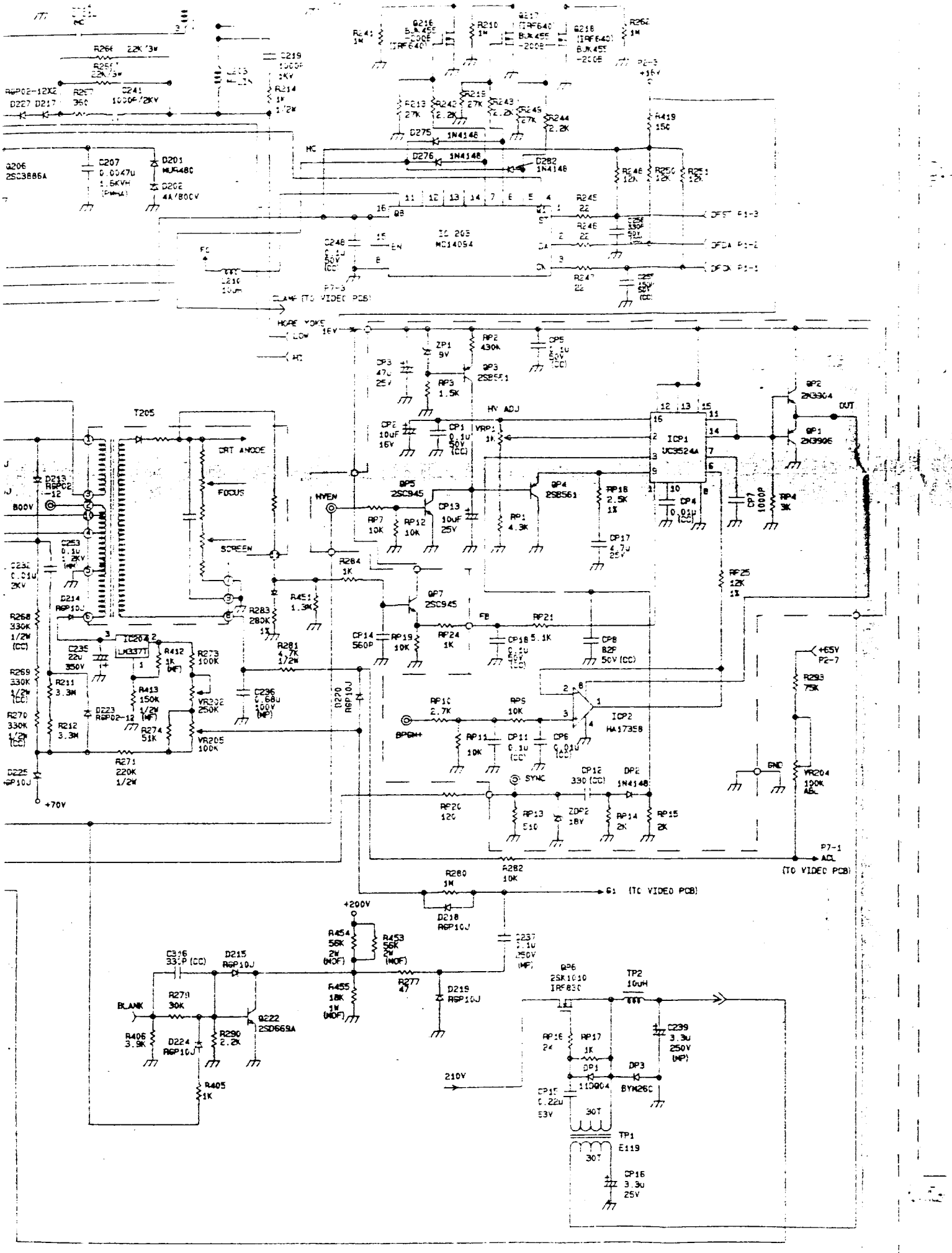
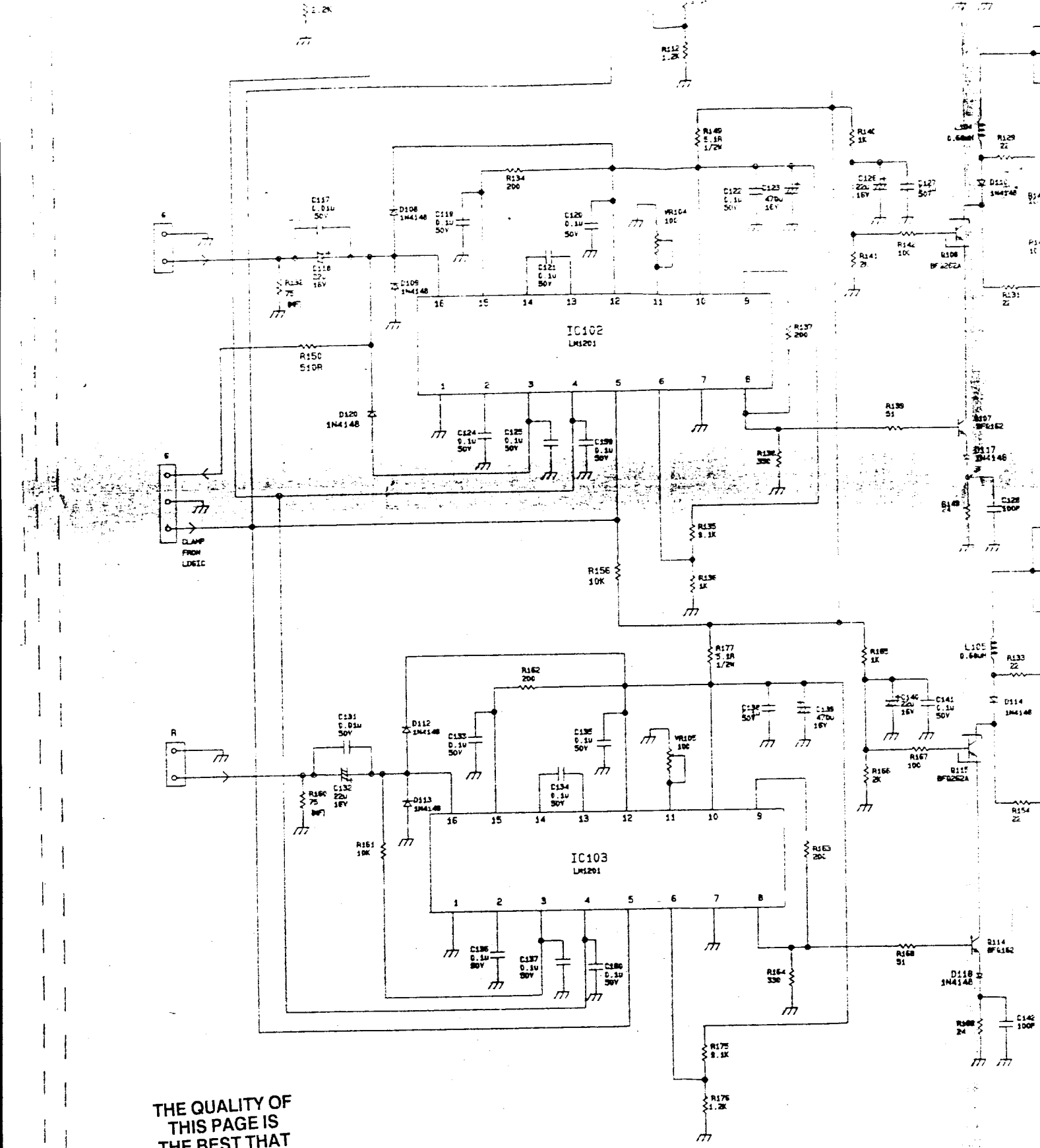


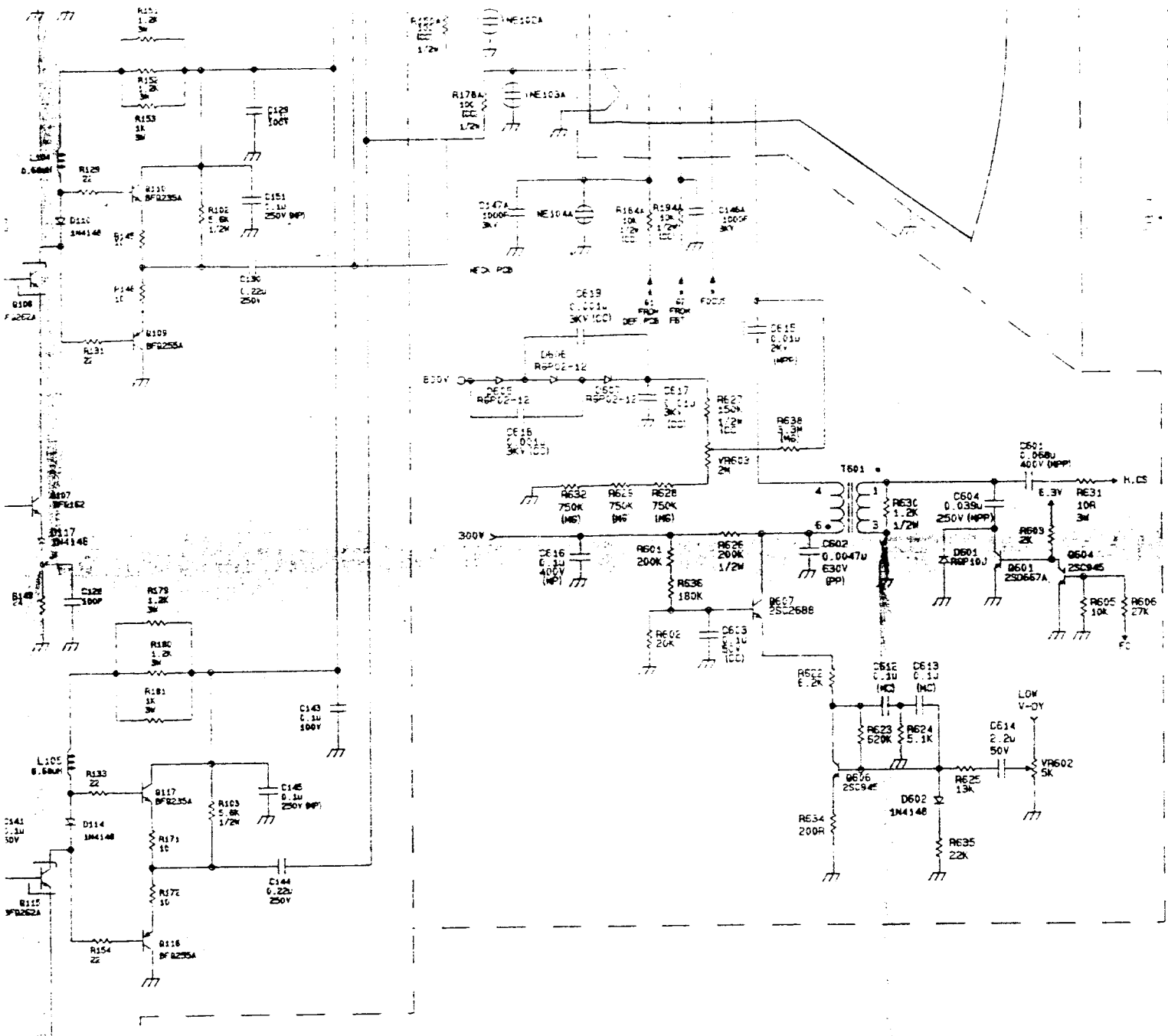
Dx CONTROL TABLE				
IC203 PIN NO. / FH	PIN5.	PIN6.	PIN7.	PIN11.
75 ~ 63KHz	L	L	L	L
63 ~ 50KHz	H	L	L	L
50 ~ 45KHz	L	H	L	L
45 ~ 40KHz	H	H	L	H
40 ~ 36KHz	L	L	H	H
36 ~ 32KHz	L	H	H	H
32 ~ 30KHz	H	H	H	H

LOCATION / FBT VENDOR	MURATA FBT	SAMPO FBT
C234	0.001u/2KV	0.0012u/2KV
R261	10.7K-1/4W 1%	16K-1/4W 1%
R283	180-1/4W 1%	300K-1/4W 1%
R451	1M-1/4W 5%	1.3M-1/4W 5%


T205
CRT ANODE
FOCUS
SCREEN
800V
HVEN
HV ADJ
ICP1
UC3524A
QP2
2N3904
OUT
QP1
2N3906
QP5
2SC945
QP4
2SB561
QP7
2SC945
ICP2
HA17358
LM337T
IC204
QP6
2SK1010
IRF830
TP1
E119
TP2
10uH
+70V
+200V
+210V
+65V
P2-7
P7-1
ACL
(TO VIDEO PCB)
G1 (TO VIDEO PCB)
BLANK
BPSM+
SYNC
HORZ YOKE
CLAMP (TO VIDEO PCB)
DFST P1-3
DFDA P1-2
DFCK P1-1
MC14094
VR205 100K
VR204 100K ABL
VR202 250K
R283 280K 1%
R211 3.3M
R212 3.3M
R271 220K 1/2W
R268 330K 1/2W (CC)
R269 330K 1/2W (CC)
R270 330K 1/2W (CC)
R274 51K
R273 100K
R281 4.7K 1/2W
R280 1M
R282 10K
R293 75K
R284 1K
R451 1.3K
R454 56K 2W (MOF)
R453 56K 2W (MOF)
R455 18K 1W (MOF)
R277 47
R279 30K
R290 2.2K
R406 3.9K
R405 1K
CP1 0.1U 50V (CC)
CP2 10uF 16V
CP3 47U 25V
CP4 0.01U (CC)
CP5 0.1U 50V (CC)
CP6 0.01U (CC)
CP7 1000P
CP8 82P 50V (CC)
CP11 0.1U (CC)
CP12 330 (CC)
CP13 10uF 25V
CP14 560P
CP15 0.22U 63V
CP16 3.3U 25V
CP17 4.7U 25V
CP18 5.1K
CP19 10K
CP20 120
CP21
RP1 4.3K
RP2 430K
RP3 1.5K
RP4 3K
RP5 12K 1%
RP6 2.7K
RP7 10K
RP8 2.5K 1%
RP9 10K
RP10 2.7K
RP11 10K
RP12 10K
RP13 510
RP14 2K
RP15 2K
RP16 24
RP17 1K
RP18 2.5K 1%
RP19 10K
RP20 120
RP21
RP24 1K
RP25 12K 1%
ZP1 9V
ZDP2 18V
DP1 1ID004
DP2 1N4148
DP3 BYM26C
D201 MUR480
D202 4A/800V
D207 0.0047U 1.6KVH
D213 RGP02-12
D214 RGP10J
D215 RGP10J
D216 IRF640
D217 IRF640
D218 RGP10J
D219 RGP10J
D220 RGP10J
D223 RGP02-12
D224 RGP10J
D225 RGP10J
D227 RGP02-12X2
D275 1N4148
D276 1N4148
D282 1N4148
C207 0.0047U 1.6KVH
C219 1000P 2KV
C235 22U 350V
C236 0.68U 100V (MP)
C237 0.1U 250V (MP)
C239 3.3U 250V (MP)
C241 1000P/2KV
C248 0.1U 50V (CC)
C253 0.1U 1.2KV
C316 33P (CC)
R241 1M
R242 2.2K
R243 2.2K
R244 2.2K
R245 22
R246 12K
R247 22
R248 22
R250 12K
R251 12K
R256 22K/3W
R257 350
R262 1M
R214 1K 1/2W
R412 1K (MF)
R413 150K 1/2W (MF)
R419 150
Q206 2SC3886A
Q222 2SD669A
Q216 BUK455 -200B
Q217 IRF640 BUK455 -200B
Q218 IRF640 BUK455 -200B



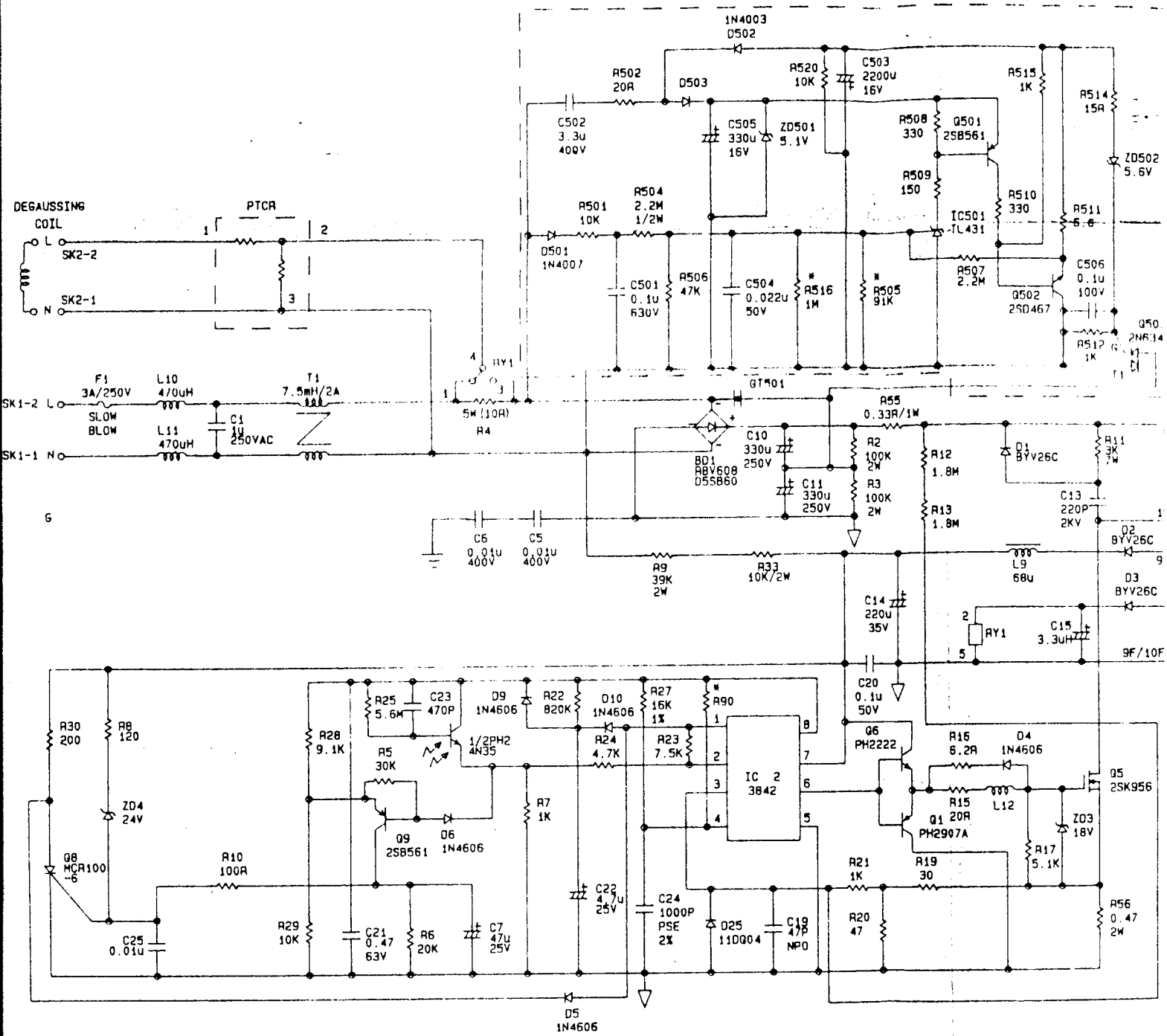
THE QUALITY OF THIS PAGE IS THE BEST THAT IS AVAILABLE



ECO/ECN	DESCRIPTION	EFFECTIVE
0-09229202ET	C241 470P → 1000P	09-29-92
	R238 240 → 1K	10-30-92
	R229 1.5K → 4.3K	
0-10079203E6	C234 1500P → 1200P	10-13-92

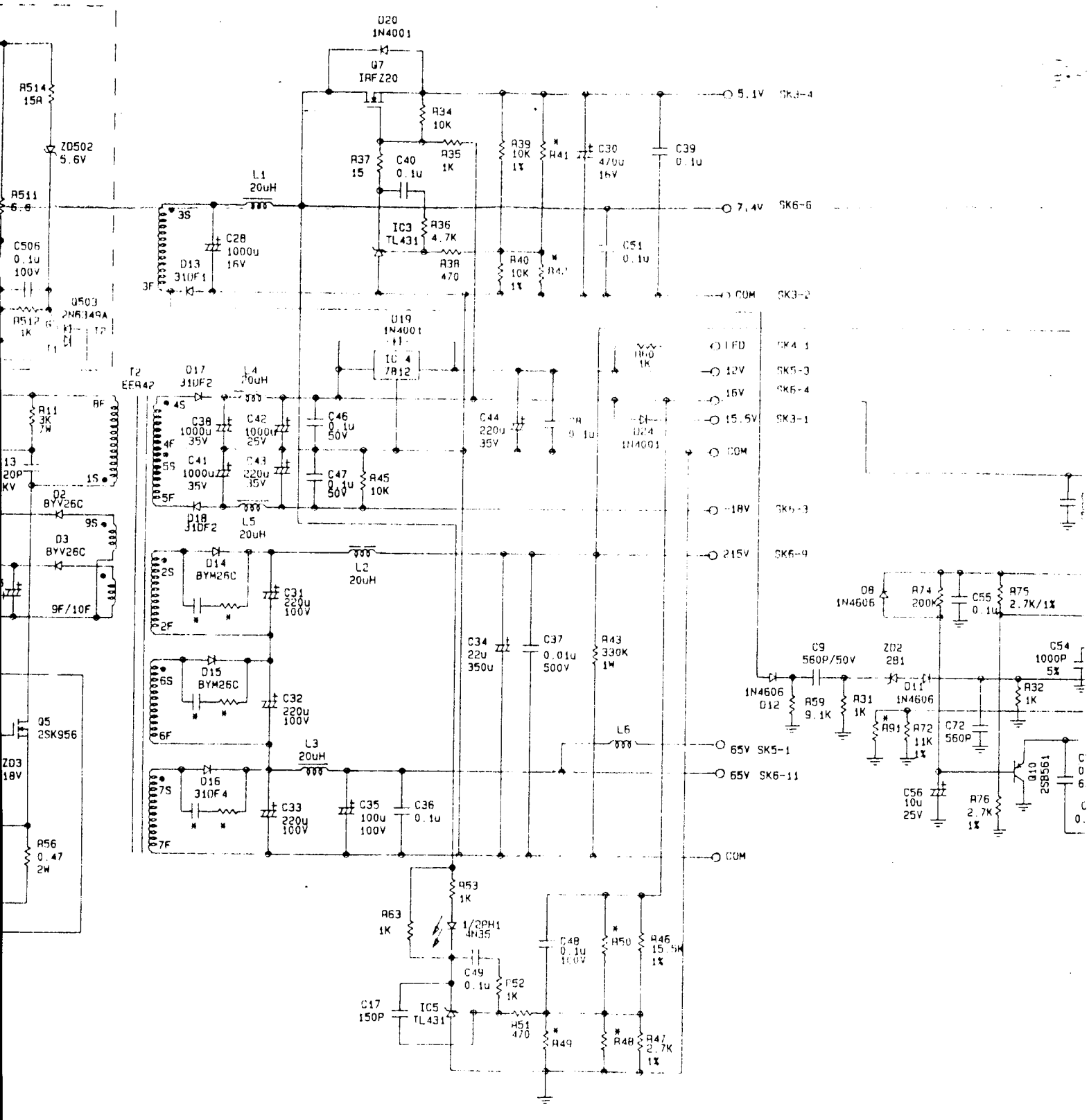
THE QUALITY OF THIS PAGE IS THE BEST THAT IS AVAILABLE

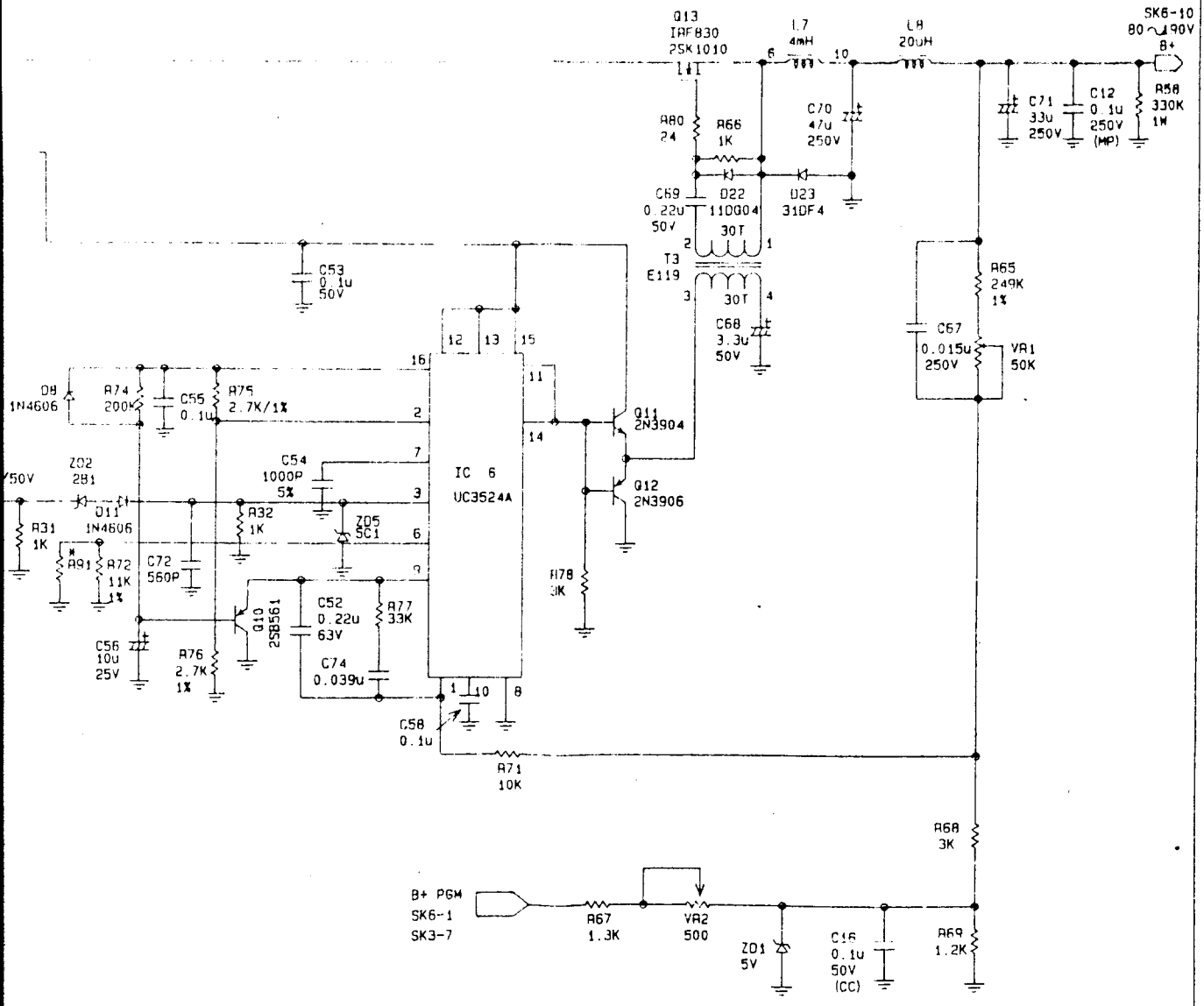
Assembly	: DEFLECTION AND CRT NECK PCB 1 OF 1
Drawing Date	: 2 OCTOBER 1991
Model	: TAXAN MV875+LR



* IS OPTION PART

R90, R91	FREE RUN FREQUENCY ADJUST RESISTOR
R48, R49, R50	16V OUTPUT VOLTAGE ADJUST RESISTOR
R41, R42	5V OUTPUT VOLTAGE ADJUST RESISTOR
R505, R516	UNIVERSAL CIRCUIT VOLTAGE ADJUST RESISTOR

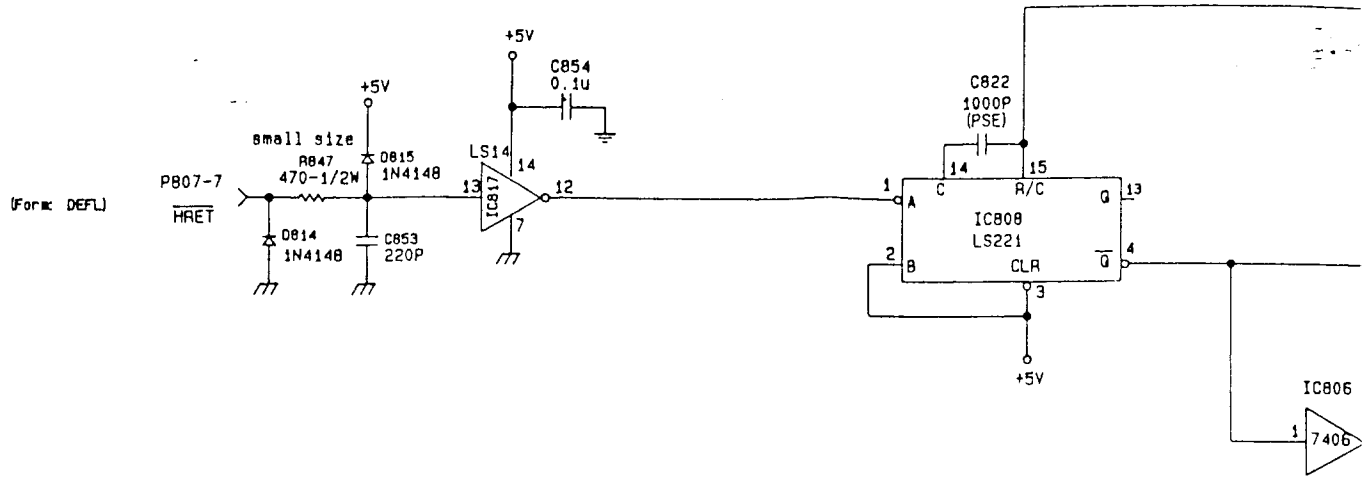

D20
1N4001
Q7
IRFZ20
R34
10K
R35
1K
R37
15
C40
0.1u
L1
20uH
R39
10K
1%
R41
C30
470u
16V
C39
0.1u
5.1V SK3-4
7.4V SK6-6
COM SK3-2
ZD502
5.6V
R511
6.8
C506
0.1u
100V
R512
1K
Q503
2N6149A
C28
1000u
16V
D13
310F1
IC3
TL431
R36
4.7K
R38
470
R40
10K
1%
C51
0.1u
D19
1N4001
IC 4
7812
T2
EE842
D17
310F2
L4
20uH
C38
1000u
35V
C42
1000u
25V
C46
0.1u
50V
C41
1000u
35V
C43
220u
35V
C47
0.1u
50V
R45
10K
D18
310F2
L5
20uH
C44
220u
35V
D24
1N4001
LED SK4-1
12V SK5-3
16V SK6-4
15.5V SK3-1
COM
18V SK6-3
215V SK6-9
D14
BYM26C
L2
20uH
C31
220u
100V
D15
BYM26C
C32
220u
100V
L3
20uH
D16
310F4
C33
220u
100V
C35
100u
100V
C36
0.1u
C34
22u
350u
C37
0.01u
500V
R43
330K
1W
L6
65V SK5-1
65V SK6-11
COM
R53
1K
R63
1K
1/2PH1
4N35
C48
0.1u
100V
R50
R46
15.5K
1%
C49
0.1u
R52
1K
C17
150P
IC5
TL431
R51
470
R49
R48
R47
2.7K
1%
D8
1N4606
R74
200K
C55
0.1u
R75
2.7K/1%
C9
560P/50V
ZD2
2B1
D11
1N4606
1N4606
D12
R59
9.1K
R31
1K
R91
R72
11K
1%
C72
560P
R32
1K
C54
1000P
5%
C56
10u
25V
R76
2.7K
1%
Q10
2SB561
R514
15A
D2
BYV26C
D3
BYV26C
9F/10F
Q5
2SK956
ZD3
18V
R56
0.47
2W
R11
3K
7W
20P
KV



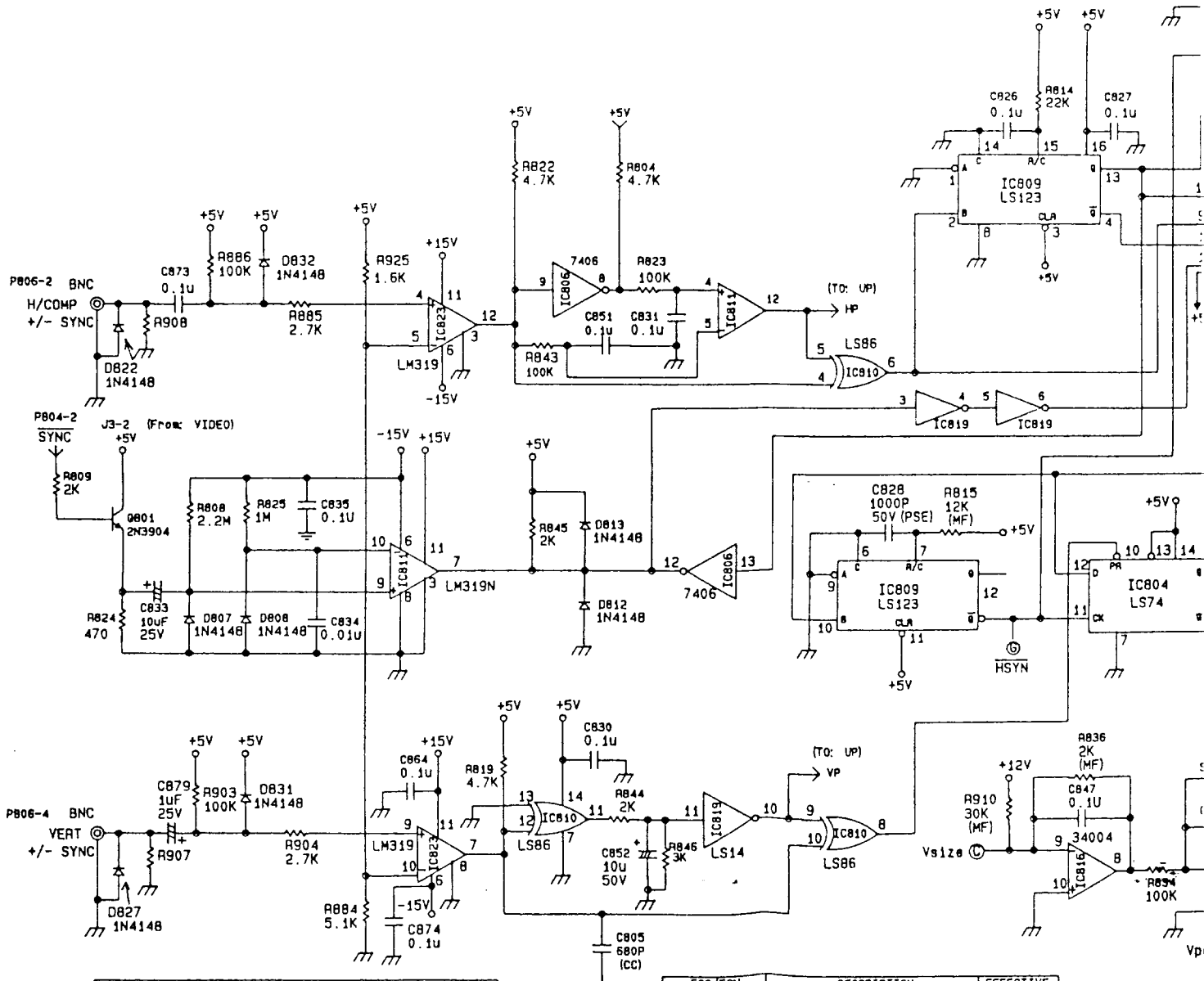
Assembly	: POWER PCB 1 OF 1
Drawing Date	: 29 AUG 1990
Model	: TAXAN MV 875+LR

09/992

IC808 SN74LS221N MOTOROLA.
IC812, 815 PC74HC4052P PHILIPS.
IC813 HEF4046BP PHILIPS.



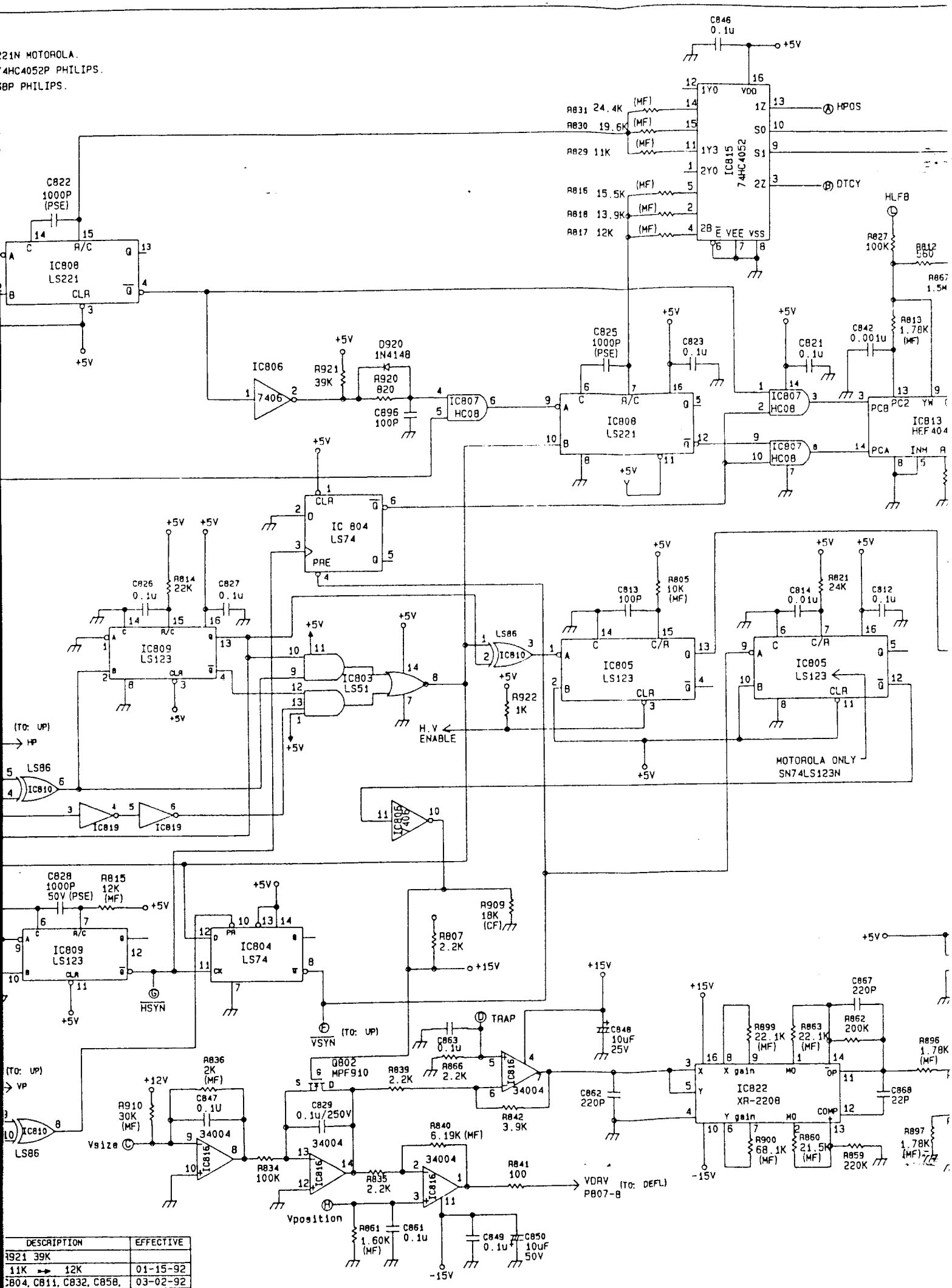
HV ENABLE
P807 - 12



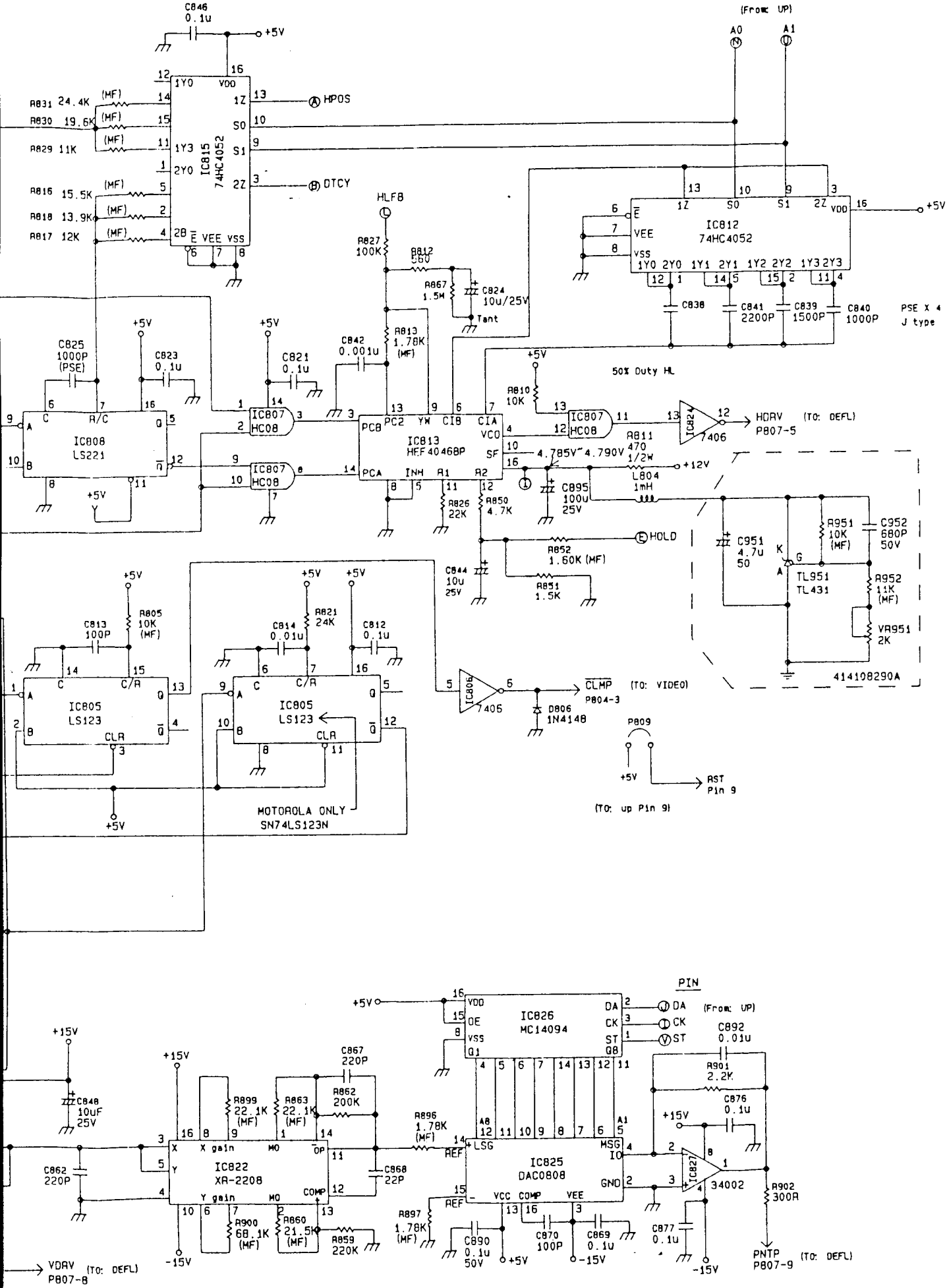
ECO/ECN	DESCRIPTION	EFFECTIVE
0-04159101ET	ADD C951 4.7u/50V	
	ADD R51 10K	
	ADD VR951 1K	
0-05079101ET	R829 11K ➡ 10K	05-15-91
	R952 11K ➡ 10.5K	
	D809 200 ➡ 0	
	R812 1K ➡ 560R	

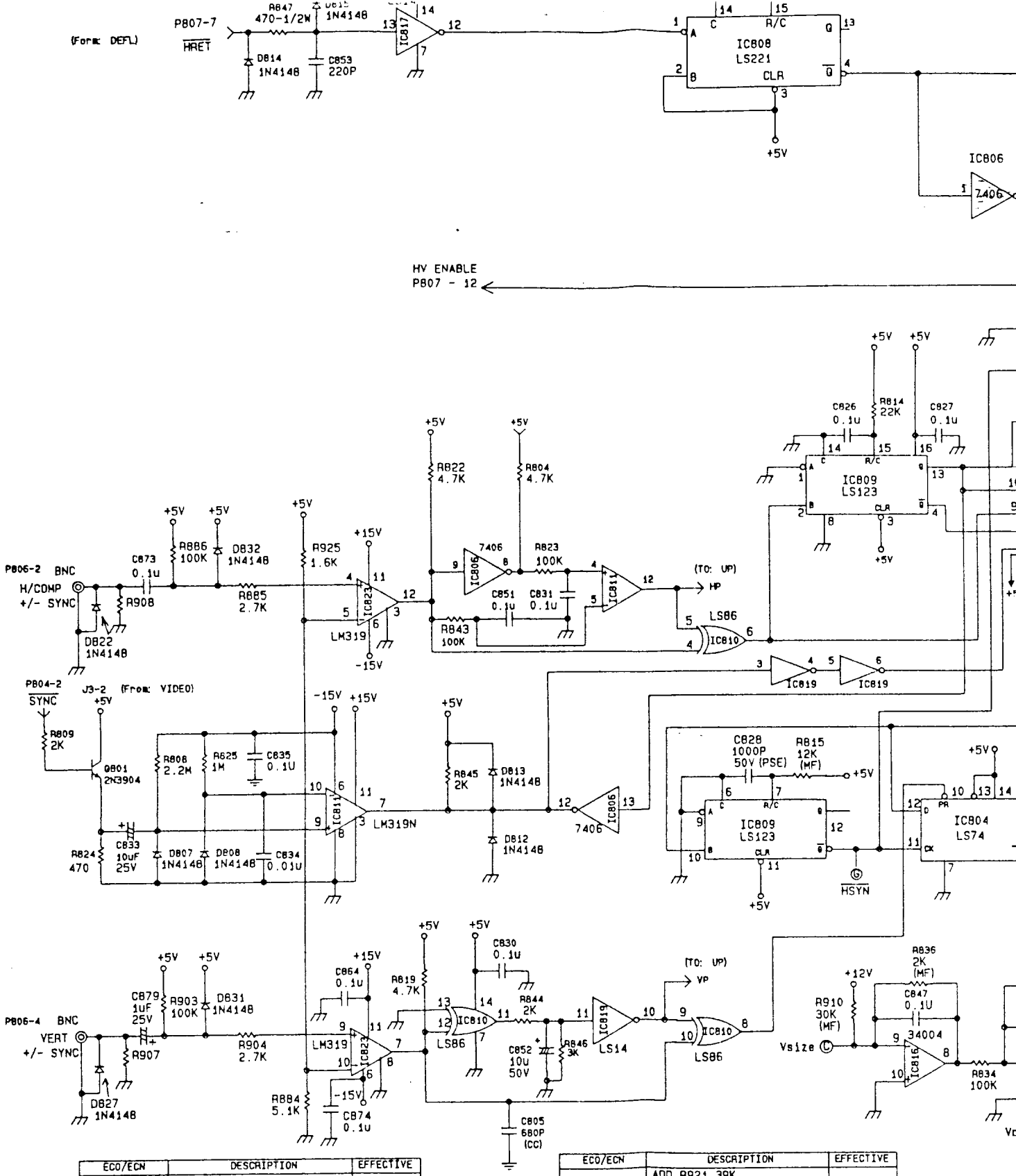
ECO/ECN	DESCRIPTION	EFFECTIVE
	ADD R921 39K	
0-07239102AT	R817 11K ➡ 12K	01-15-92
0-02289202EC	DEL C804, C811, C832, C858, C871, C872	03-02-92
0-03259202ET	VR951 1K ➡ 2K	06-01-92
	R952 11.5K ➡ 11K	
0-06229202EG	R829 10K ➡ 11K	06-26-92

221N MOTOROLA.
74HC4052P PHILIPS.
68P PHILIPS.



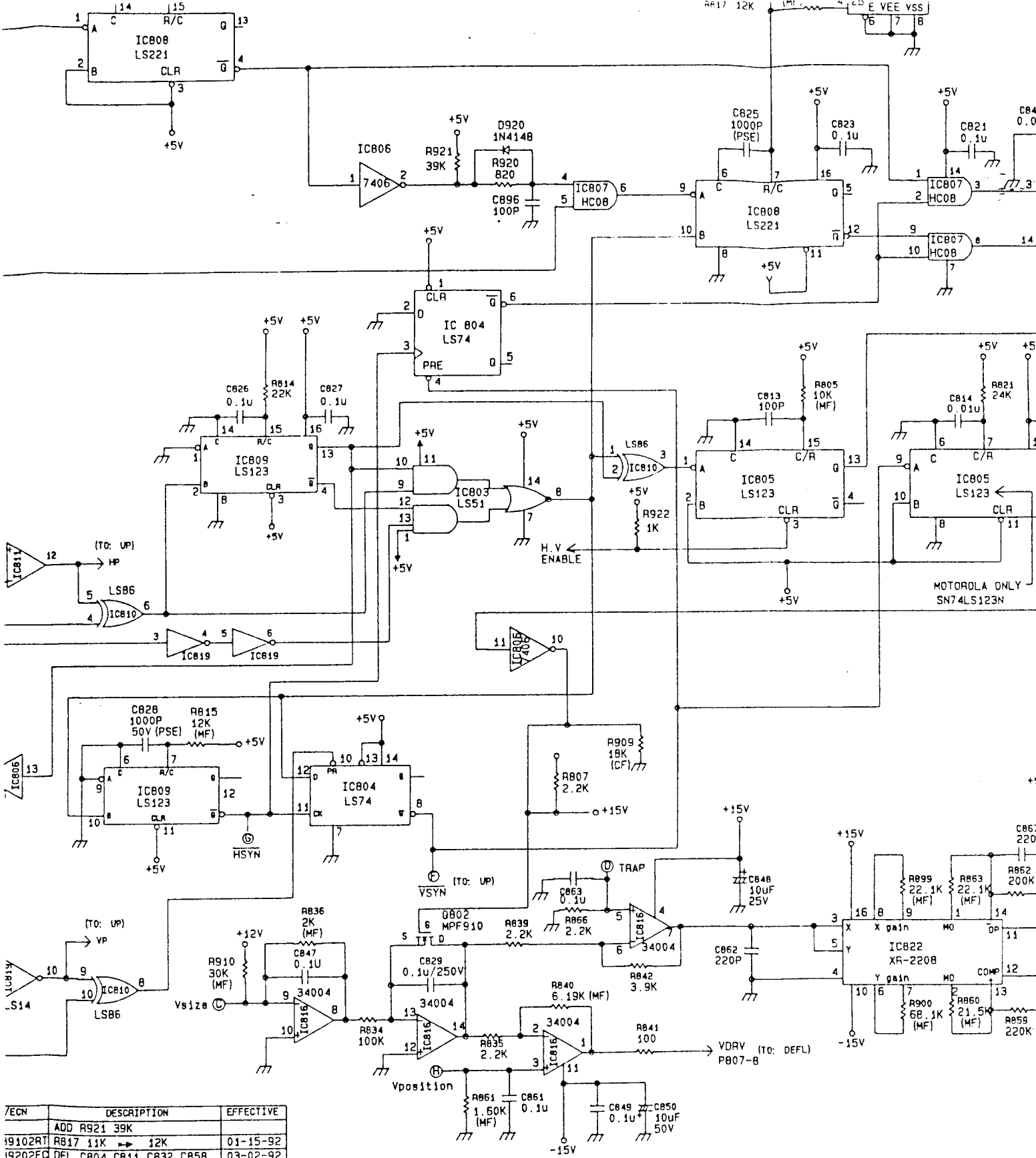
DESCRIPTION	EFFECTIVE
A921 39K	
A 11K ➡ 12K	01-15-92
C804, C811, C832, C858, C871, C872	03-02-92
A 1K ➡ 2K	06-01-92
A 11.5K ➡ 11K	
A 10K ➡ 11K	06-26-92


C846 0.1u
+5V
IC815 74HC4052
R831 24.4K (MF)
R830 19.6K (MF)
R829 11K (MF)
R816 15.5K (MF)
R818 13.9K (MF)
R817 12K (MF)
HPOS
DTCY
(From UP)
A0
A1
IC812 74HC4052
HLFB
R827 100K
R812 560
R867 1.5M
C824 10u/25V Tant
C838
C841 2200P
C839 1500P
C840 1000P
PSE X 4
J type
50% Duty HL
R810 10K
C825 1000P (PSE)
C823 0.1u
C821 0.1u
C842 0.001u
R813 1.78K (MF)
IC808 LS221
IC807 HC08
IC813 HEF40468P
4.785V~4.790V
R811 470 1/2W
+12V
L804 1mH
HDRV (TO: DEFL) P807-5
C895 100u 25V
R826 22K
R850 4.7K
HOLD
R852 1.60K (MF)
C844 10u 25V
R851 1.5K
C951 4.7u 50
TL951 TL431
R951 10K (MF)
C952 680P 50V
R952 11K (MF)
VR951 2K
414108290A
C813 100P
R805 10K (MF)
C814 0.01u
R821 24K
C812 0.1u
IC805 LS123
CLMP (TO: VIDEO) P804-3
D806 1N4148
P809
RST Pin 9
(TO: up Pin 9)
MOTOROLA ONLY
SN74LS123N
PIN
IC826 MC14094
DA
CK
ST
C892 0.01u
R901 2.2K
C876 0.1u
+15V
C848 10uF 25V
C867 220P
R899 22.1K (MF)
R863 22.1K (MF)
R862 200K
R896 1.78K (MF)
IC822 XR-2208
C862 220P
C868 22P
IC825 DAC0808
IC827 34002
R902 300R
R900 68.1K (MF)
R860 21.5K (MF)
R859 220K
R897 1.78K (MF)
C890 0.1u 50V
C870 100P
C869 0.1u
C877 0.1u
-15V
VDRV (TO: DEFL) P807-8
PNTP (TO: DEFL) P807-9



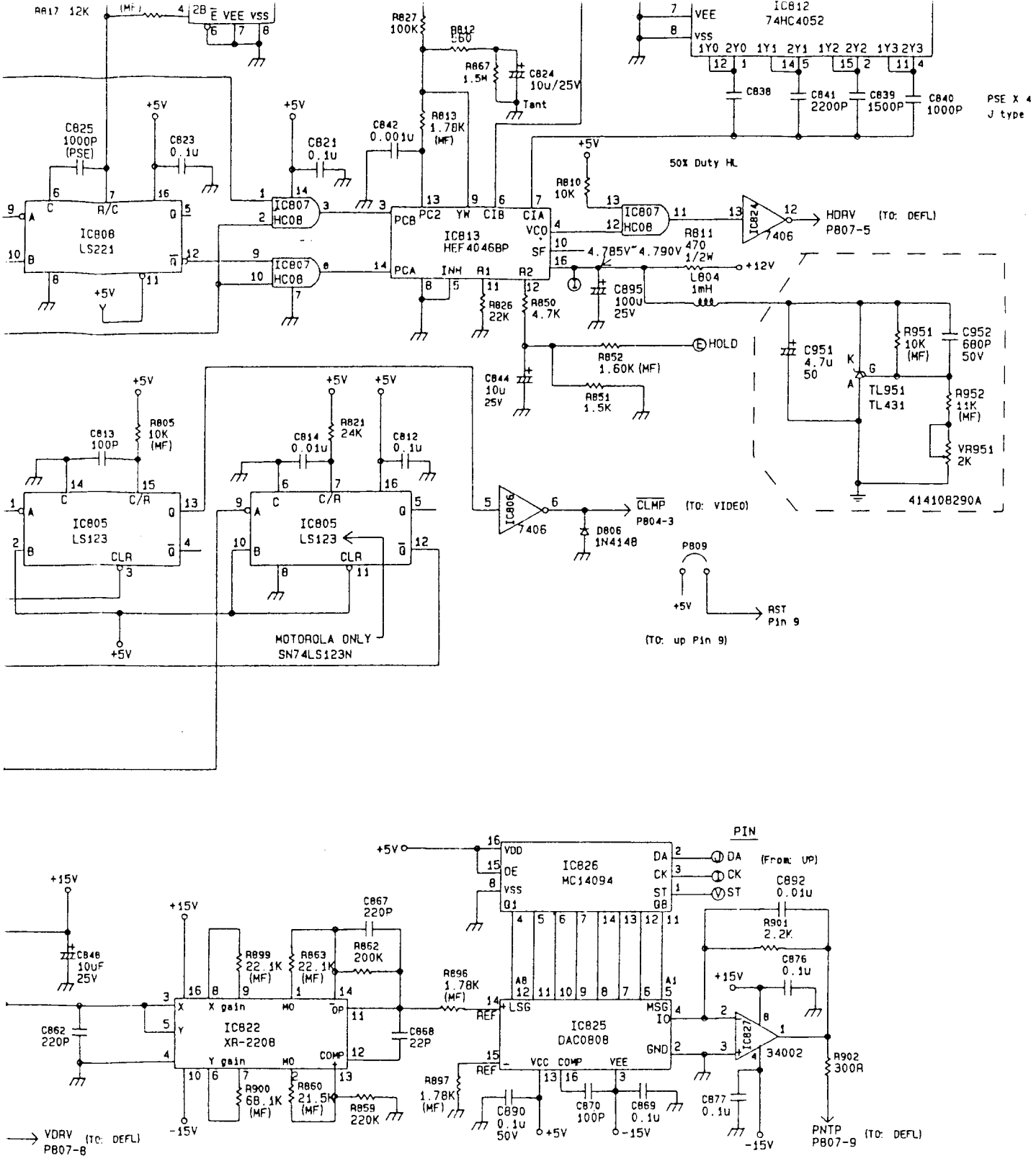
ECO/ECN	DESCRIPTION	EFFECTIVE
0-04159101ET	ADD C951 4.7u/50V	
	ADD R51 10K	
	ADD VR951 1K	
0-05079101ET	R829 11K ➡ 10K	05-15-91
	R952 11K ➡ 10.5K	
	D809 200 ➡ 0	
	RB12 1K ➡ 560R	
	DEL D805, 825 1N4148	
	DEL R806 4.7K	
	C814 0.1u ➡ 0.01u	
0-05209108ET	R840 6.19K ➡ 3K	05-25-91
	R901 1.8K ➡ 3K	
	R910 30K ➡ 16K	
	R902 100R ➡ 300R	
	C892 0.1u ➡ 0.01u	
0-06209104ET	ADD LB04 1mH	06-20-91
	ADD C895 100u/25V	
	R952 10.5K ➡ 11.5K	
0-06229101ET	R901 3K ➡ 2.2K	06-22-91
	R910 16K ➡ 30K	
	R840 3K ➡ 6.19K	
0-07119104RT	R920 47K ➡ 820R	08-01-91

ECO/ECN	DESCRIPTION	EFFECTIVE
	ADD R921 39K	
0-07239102RT	R817 11K ➡ 12K	01-15-92
0-02289202EC	DEL C804, C811, C832, C858, C871, C872	03-02-92
0-03259202ET	VR951 1K ➡ 2K	06-01-92
	R952 11.5K ➡ 11K	
0-06229202EG	R829 10K ➡ 11K	06-26-92
0-09169209ET	DEL D826, 821 1N4148	09-18-92



/ECN	DESCRIPTION	EFFECTIVE
	ADD R921 39K	
9102RT	R817 11K ➡ 12K	01-15-92
9202EC	DEL C804, C811, C832, C858, C871, C872	03-02-92
9202ET	VR951 1K ➡ 2K	06-01-92
	R952 11.5K ➡ 11K	
9202EG	R829 10K ➡ 11K	06-26-92
9209ET	DEL D826, 821 1N4148	09-18-92

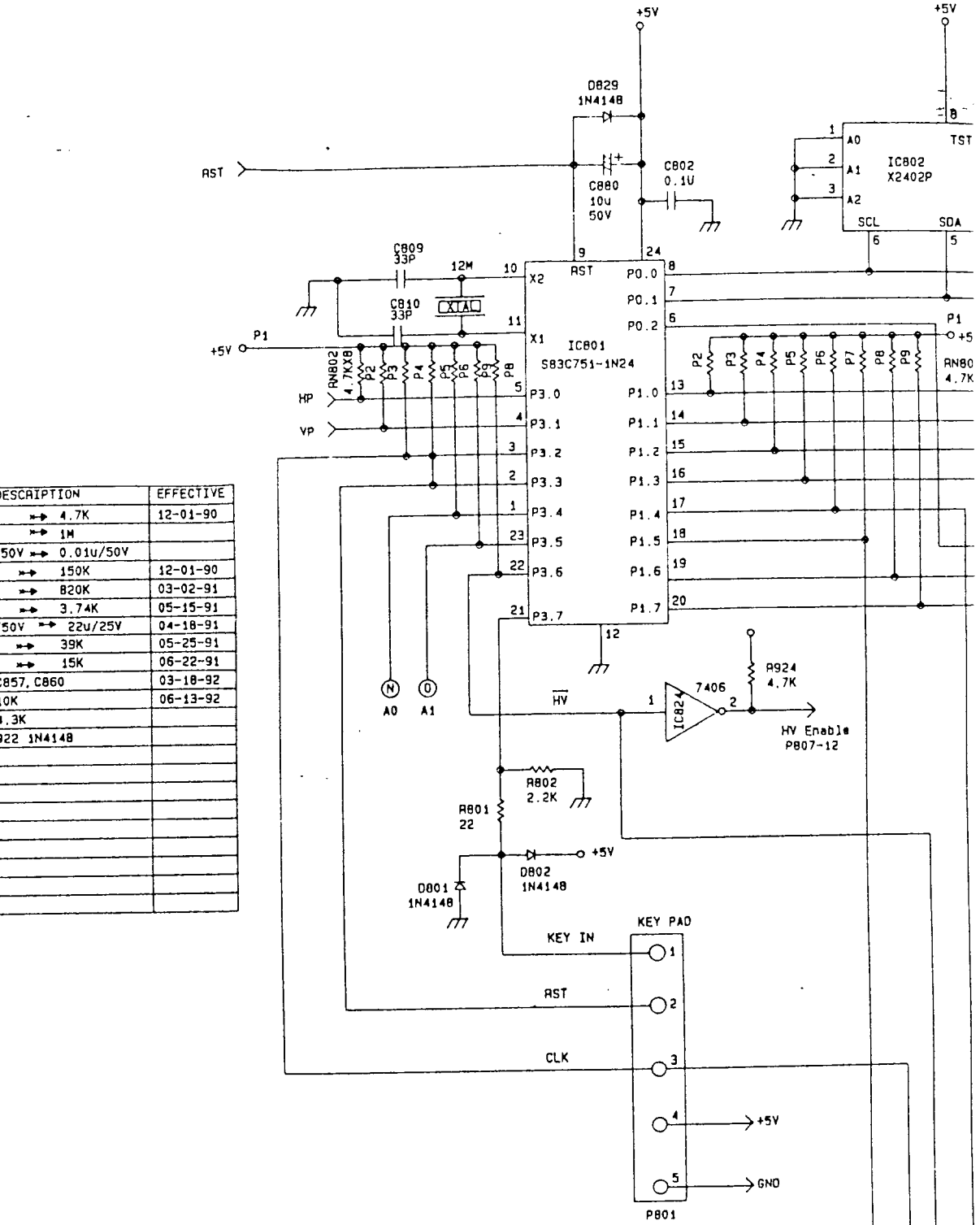
* R829 11K ONLY FOR CDS4235 LOGIC MAIN BOARD.

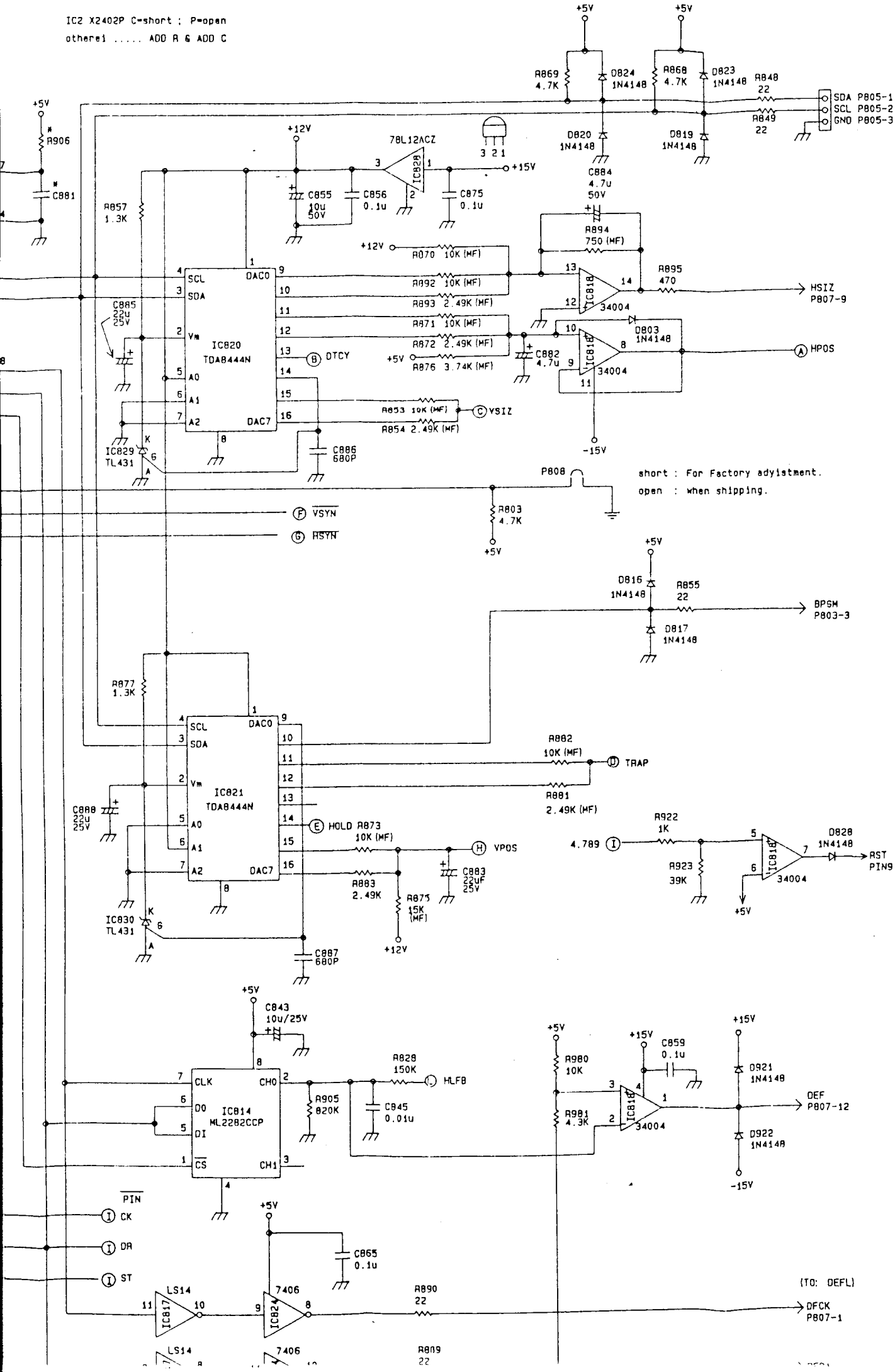


OARD.

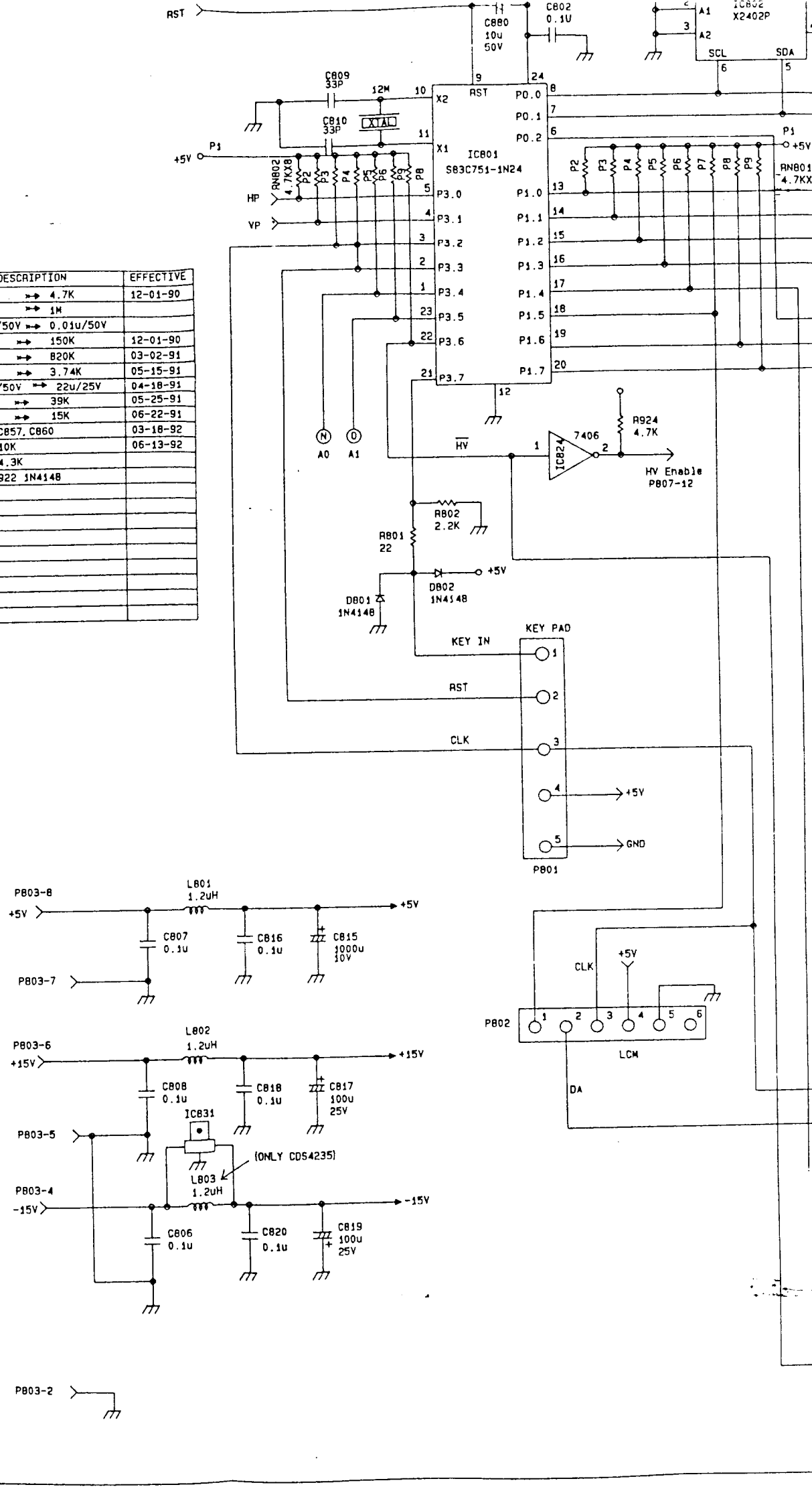
Assembly	: LOGIC PCB 1 OF 2
Drawing Date	: 01 JULY 1991
Model	: TAXAN MV 875+LR

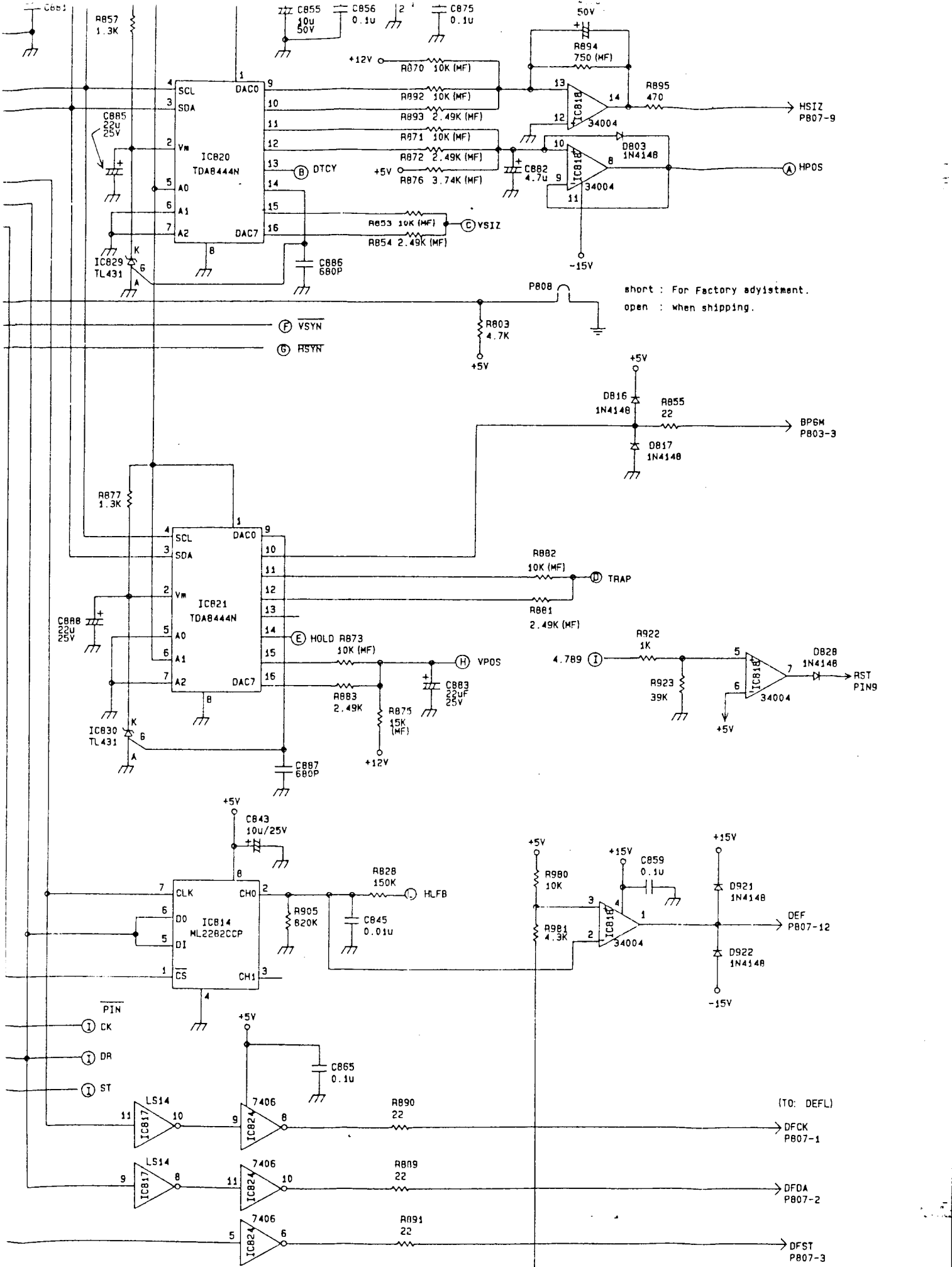
ECO/ECN	DESCRIPTION	EFFECTIVE
0-11199007ET	R828 470 ➡ 4.7K	12-01-90
	R905 100K ➡ 1M	
	C845 0.1u/50V ➡ 0.01u/50V	
0-11229006ET	R828 4.7K ➡ 150K	12-01-90
0-03019105ET	R905 1M ➡ 820K	03-02-91
0-05079101ET	R876 2K ➡ 3.74K	05-15-91
0-03289102ET	C883 4.7u/50V ➡ 22u/25V	04-18-91
0-05209108ET	R875 15K ➡ 39K	05-25-91
0-06229101ET	R875 39K ➡ 15K	06-22-91
0-02289202EC	DEL C803, C857, C860	03-18-92
0-06119204EG	ADD R980 10K	06-13-92
	ADD R981 4.3K	
	ADD D921, 922 1N4148	




IC2 X2402P C=short ; P=open
other1 ..... ADD A & ADD C
+5V
+12V
+15V
-15V
R869 4.7K
D824 1N4148
R868 4.7K
D823 1N4148
R848 22
R849 22
SDA P805-1
SCL P805-2
GND P805-3
D820 1N4148
D819 1N4148
C884 4.7u 50V
78L12ACZ
IC828
C855 10u 50V
C856 0.1u
C875 0.1u
R857 1.3K
R906
C881
R894 750 (MF)
R870 10K (MF)
R892 10K (MF)
R893 2.49K (MF)
R871 10K (MF)
R872 2.49K (MF)
R876 3.74K (MF)
R895 470
HSIZ P807-9
HPOS
DTCY
VSIZ
C885 22u 25V
IC820 TDA8444N
SCL
SDA
Vm
A0
A1
A2
DAC0
DAC7
IC818 34004
D803 1N4148
C882 4.7u
R853 10K (MF)
R854 2.49K (MF)
C886 680P
IC829 TL431
P808
short : For Factory adyistment.
open : when shipping.
R803 4.7K
VSYN
HSYN
D816 1N4148
R855 22
D817 1N4148
BPSM P803-3
R877 1.3K
IC821 TDA8444N
R882 10K (MF)
R881 2.49K (MF)
TRAP
C888 22u 25V
HOLD R873 10K (MF)
VPOS
R883 2.49K
R875 15K (MF)
C883 22uF 25V
IC830 TL431
C887 680P
R922 1K
R923 39K
D828 1N4148
RST PIN9
C843 10u/25V
IC814 ML2282CCP
CLK
DO
DI
CS
CH0
CH1
R828 150K
HLFB
R905 820K
C845 0.01u
R980 10K
R981 4.3K
C859 0.1u
D921 1N4148
D922 1N4148
DEF P807-12
PIN
CK
DR
ST
C865 0.1u
LS14
IC817
7406
IC824
R890 22
(TO: DEFL)
DFCK P807-1
R809 22

ECO/ECN	DESCRIPTION	EFFECTIVE
0-11199007ET	R828 470 ➡ 4.7K	12-01-90
	R905 100K ➡ 1M	
	C845 0.1u/50V ➡ 0.01u/50V	
0-11229006ET	R828 4.7K ➡ 150K	12-01-90
0-03019105ET	R905 1M ➡ 820K	03-02-91
0-05079101ET	R876 2K ➡ 3.74K	05-15-91
0-03289102ET	C683 4.7u/50V ➡ 22u/25V	04-18-91
0-05209108ET	R875 15K ➡ 39K	05-25-91
0-06229101ET	R875 39K ➡ 15K	06-22-91
0-02289202EC	DEL C803, C857, C860	03-18-92
0-06119204EG	ADD R980 10K	06-13-92
	ADD R981 4.3K	
	ADD D921, 922 1N4148	





Assembly	: LOGIC PCB 2 OF 2
Drawing Date	: 30 JULY 1991
Model	: TAXAN MV 875+LR

TAXAN Document Control

Document Title : Multivision 875 Plus LR Service Manual	
Issue Number: 001	
Issued By: Dick Menhinick	Date of Issue: 2/8/93
Revisions:	

TAXAN Safety Notices

Please Note:

The following information is provided in the interests of safety.

1). This equipment is mains powered (230 Volts AC) and is therefore potentially hazardous once the cover is removed.

2). Only trained engineering staff should attempt any work on the unit with the cover removed.

3). While servicing the unit , protect the mains supply to the equipment under test and all electrically powered test equipment with a suitably rated Residual Current Circuit Breaker (rccb) unit. These devices are readily available and are designed to remove the mains supply quickly in the event of a serious leakage of current to earth.

4). Ensure all test equipment, and the unit under test is adequately earthed .

5). Always discharge the CRT before attempting any work on the high voltage power circuits.

6). We advise the use of Electrostatic Damage Prevention equipment when servicing electronic equipment containing static sensitive devices.

TAXAN

Multivision 875+LR Specifications

Compatibility	IBM PC,XT, AT, Personal System/2, Apple Macintosh II
Size	17"
Shadow Mask	0.28mm Invar Mask
Face Treatment	Non-glare silica coated
H.Scan Frequency	30 - 75 KHz
V.Scan Frequency	50 - 90 Hz
Bandwidth	>130MHz
Input Video Signal	RGB Analogue 0.714V p-p 75Ω
Input Video Sync	Sync on Green 0.286V p-p 75Ω H/V Composite 2.0 - 5.0V p-p 2kΩ +/+, -/-, +/-, -/+ H/V Separate 2.0 - 5.0V p-p 2kΩ +/+, -/-, +/-, -/+
Input Signal Terminal	5 BNC (cable included)
Display Area	300 x 225 ± 3mm
Display Resolution	1280 x 1024 (non-interlaced)
Display Format	5,676 characters (8 x 8 pixels)
Side Controls	Power, contrast, brightness, memory recall, image adjustment selector, calibration
Front Controls	None
Rear Controls	None
Power Source	88 - 132VAC 50 or 60 Hz ± 3 Hz 180 - 264VAC 50 or 60Hz ± 3 Hz
Power Consumption	135 Watts Maximum
Dimensions	411(w) x 338(h) x 435(d) millimetres
Weight	25Kgs (55 pounds) nett
Tilt / Swivel Base	Included.

Video Modes and Frequencies Chart

Mode #	Display Standard	Resolution	Frequency H (KHz)	V (Hz)
1	IBM VGA	640 x 350 720 x 350	31.47 31.47	70.08 70.08
2	IBM VGA	640 x 400 720 x 400	31.47 31.47	70.08 70.08
3	IBM VGA	640 x 480	31.47	59.94
4	VESA	800 x 600	35.16	56.25
5	VESA	800 x 600	48.09	72.01
6	IBM 8514/A	1024 x 768i	35.52	86.96 (1 field)
7	GTS 695+	1024 x 768ni	49.06	60.05
8	GTS 695+	1024 x 768ni	56.18	69.96
9	GTS 695+	1024 x 768ni	57.87	71.80
10		1024 x 768ni	64.25	60.00

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